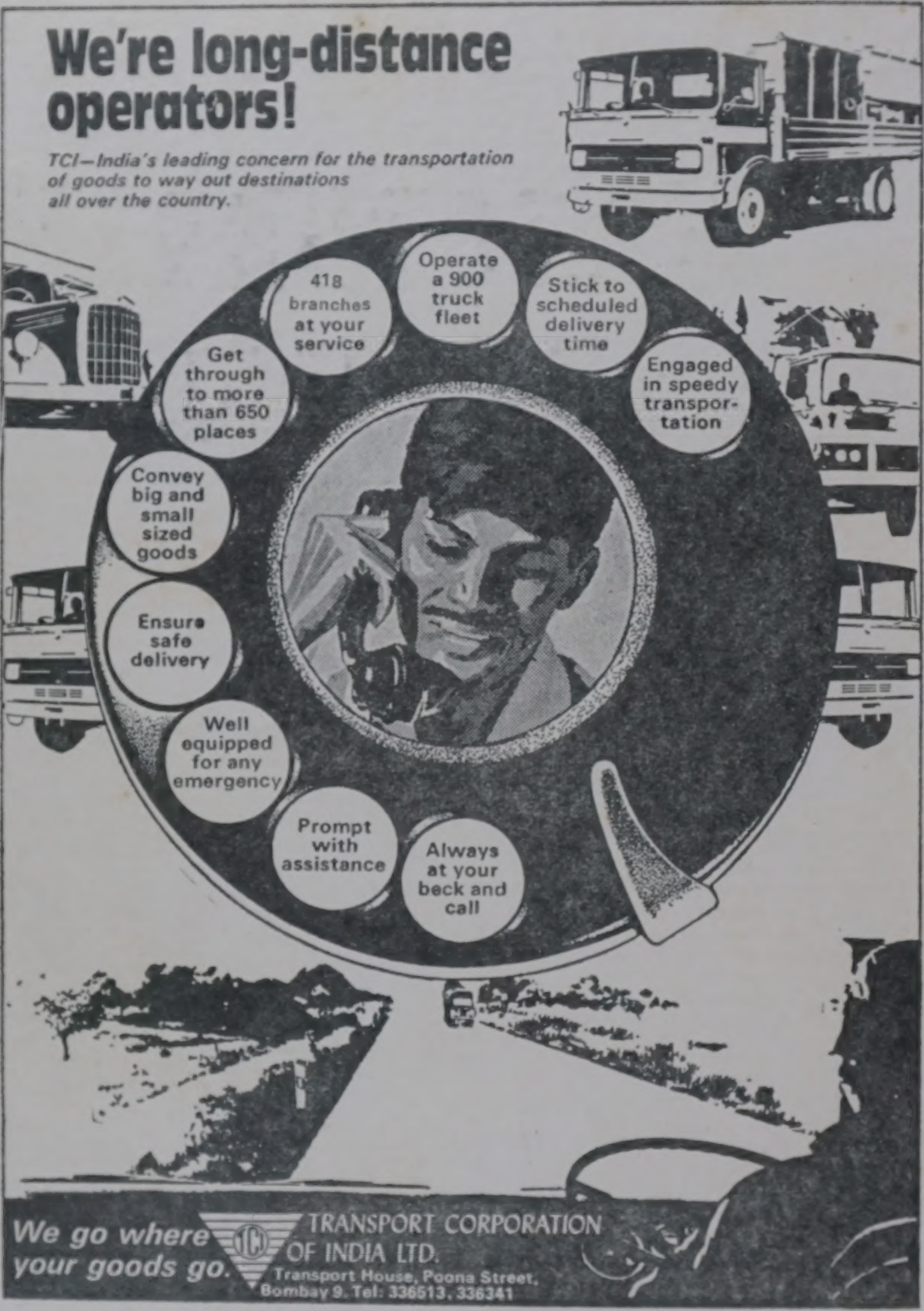
THE TIMES OF INDIA

DIRECTORY & YEARBOOK

INCLUDING WHO'S WHO

1979



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1979

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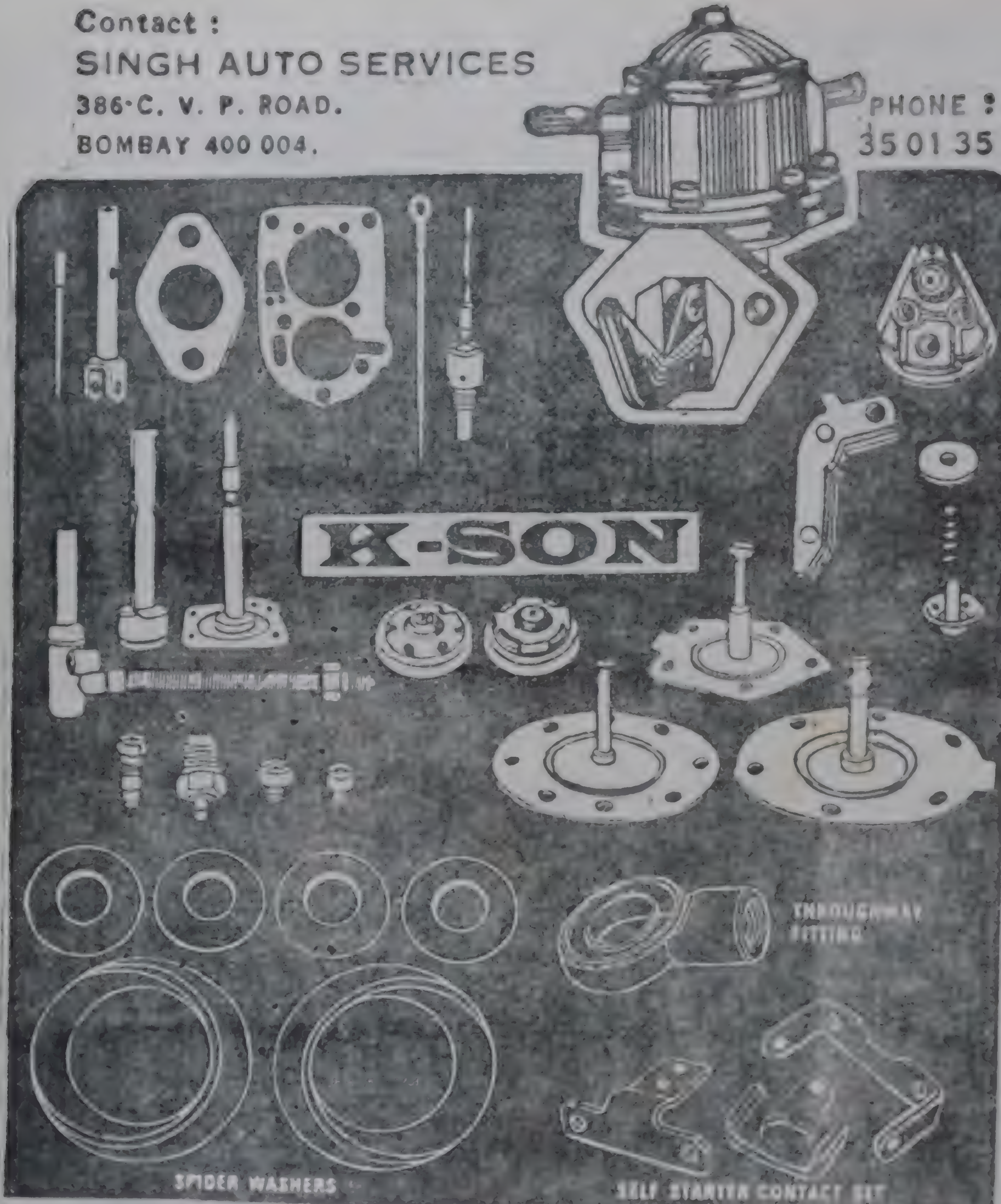
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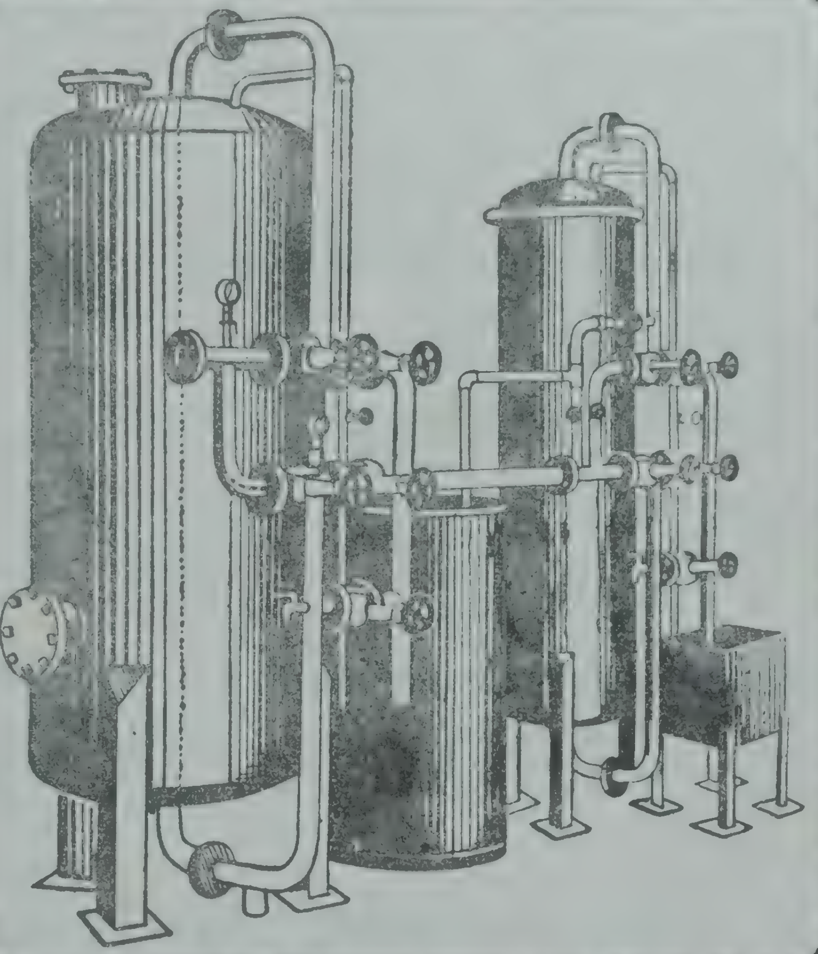

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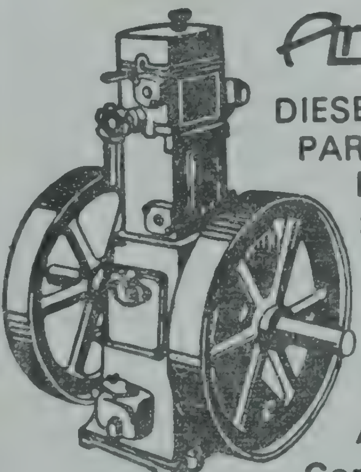

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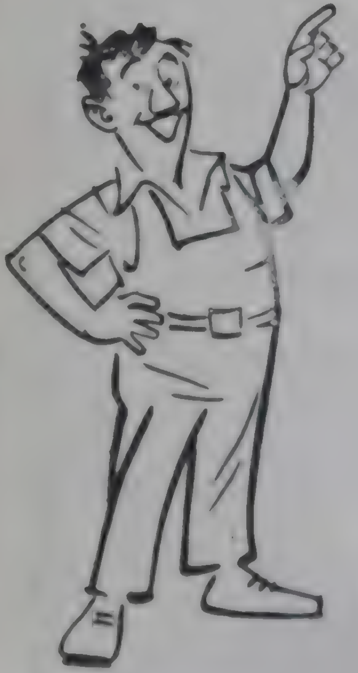

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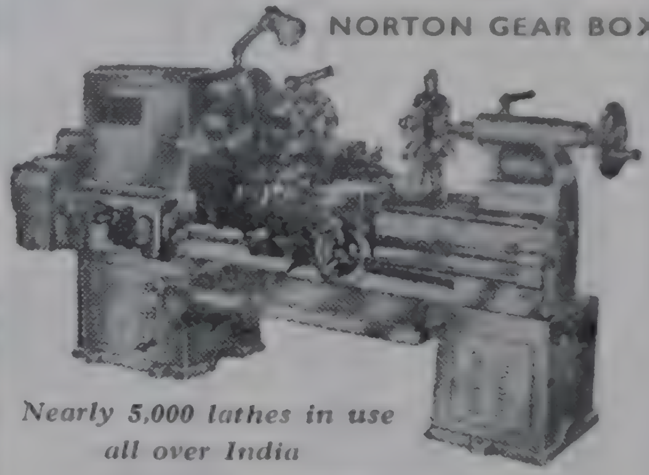

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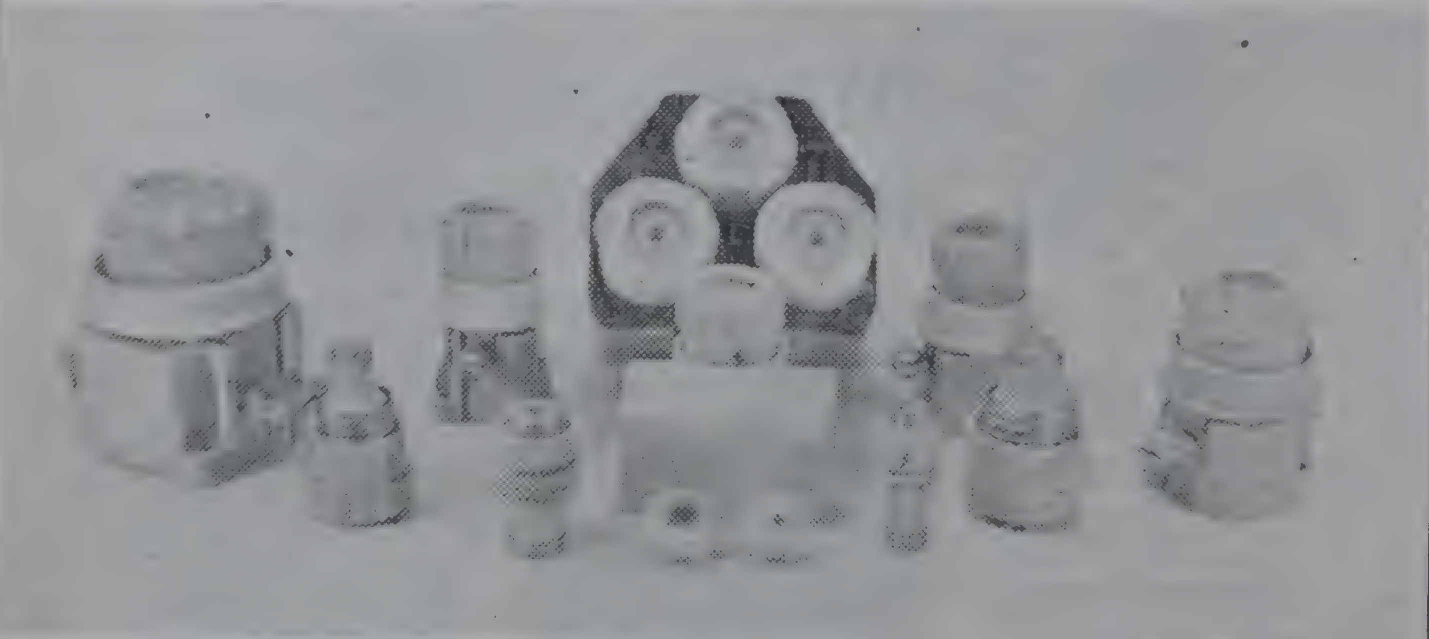

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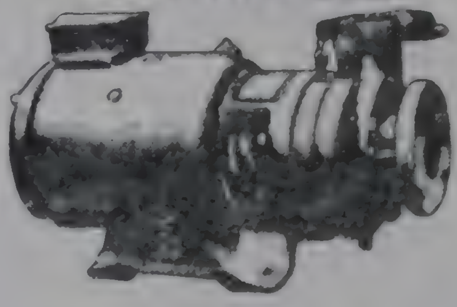

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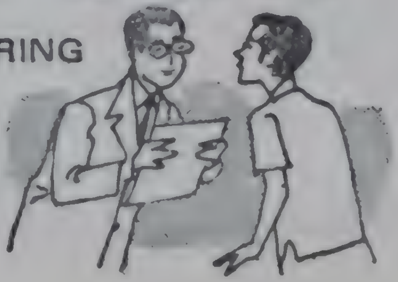
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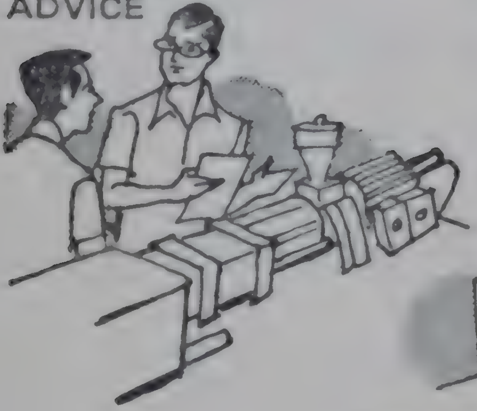
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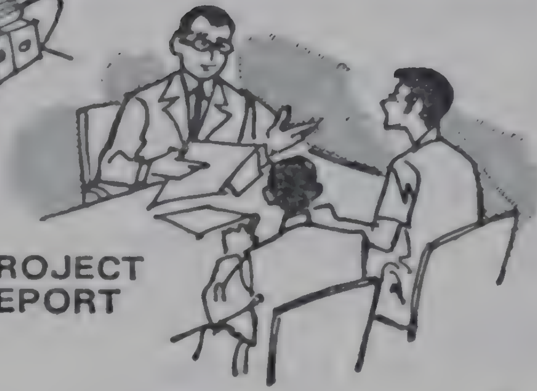
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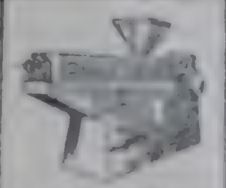
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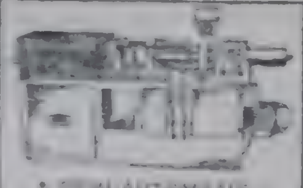
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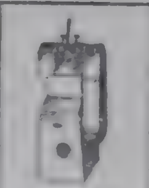
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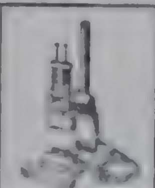
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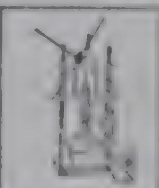
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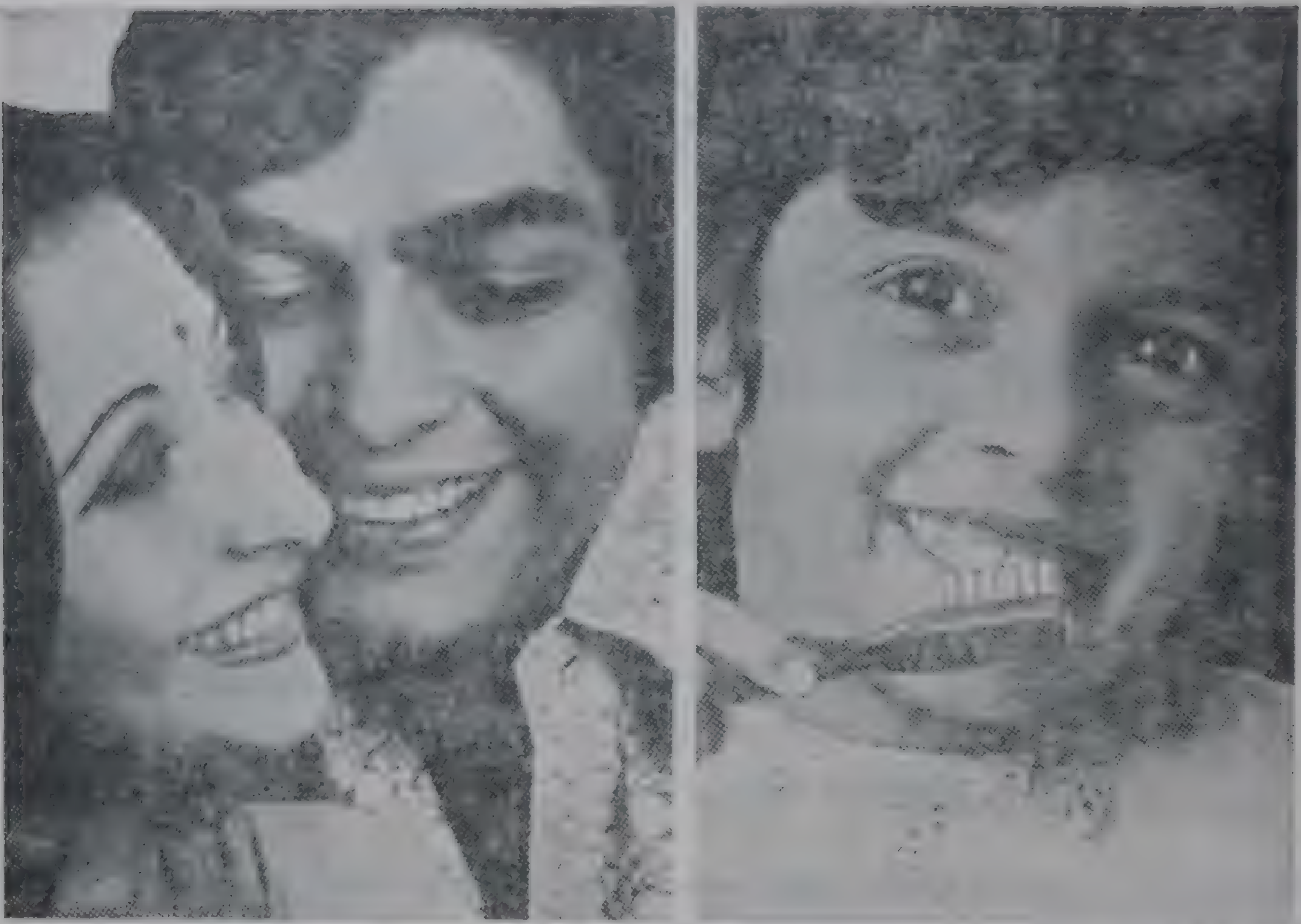

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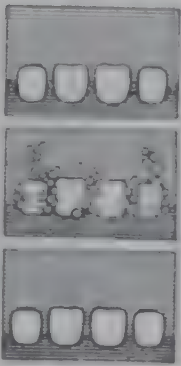

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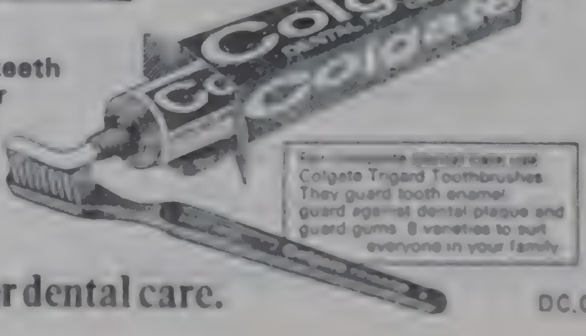

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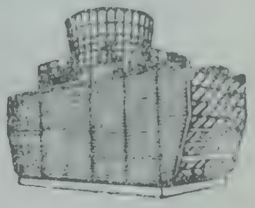

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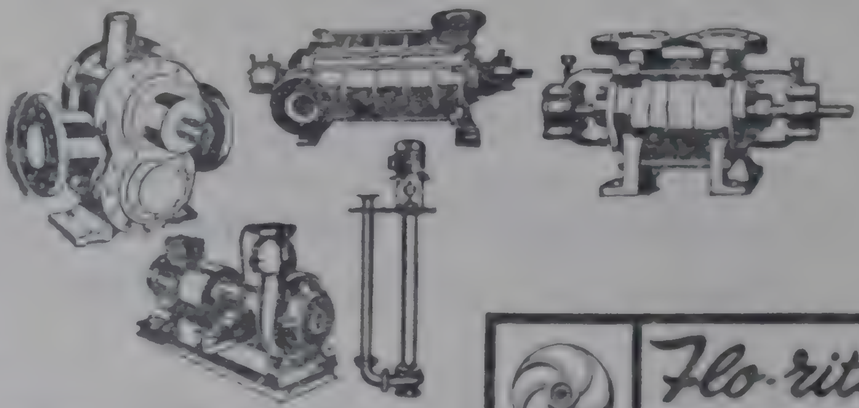

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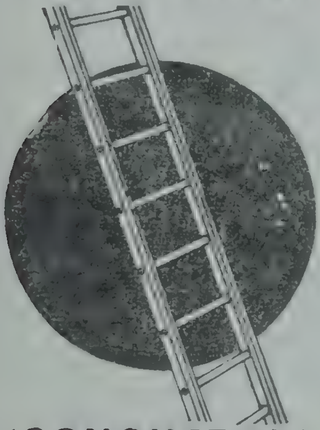

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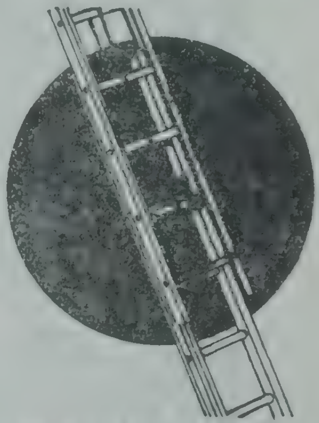

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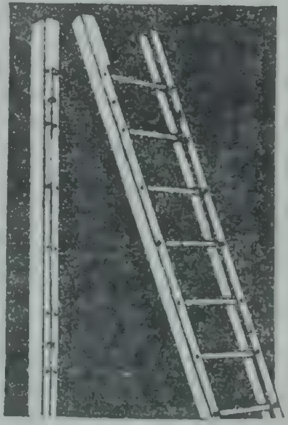

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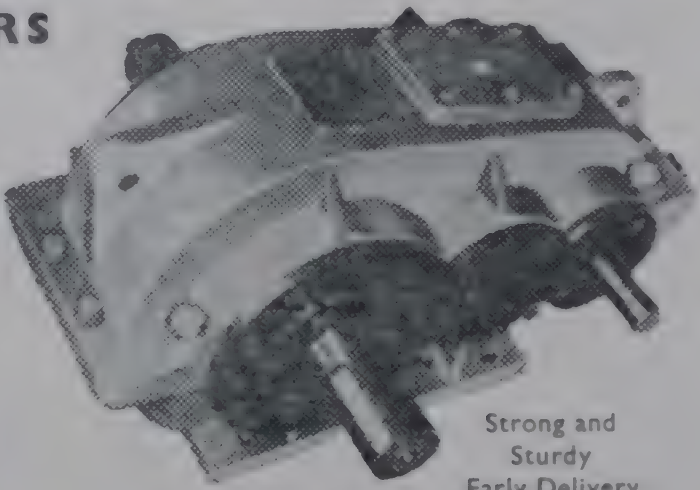

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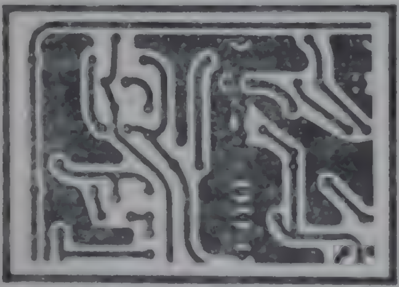

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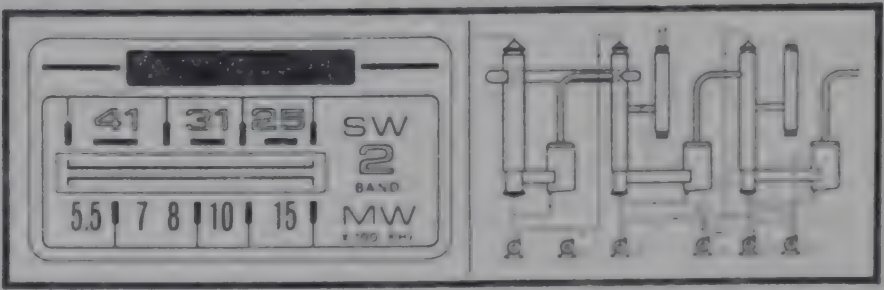

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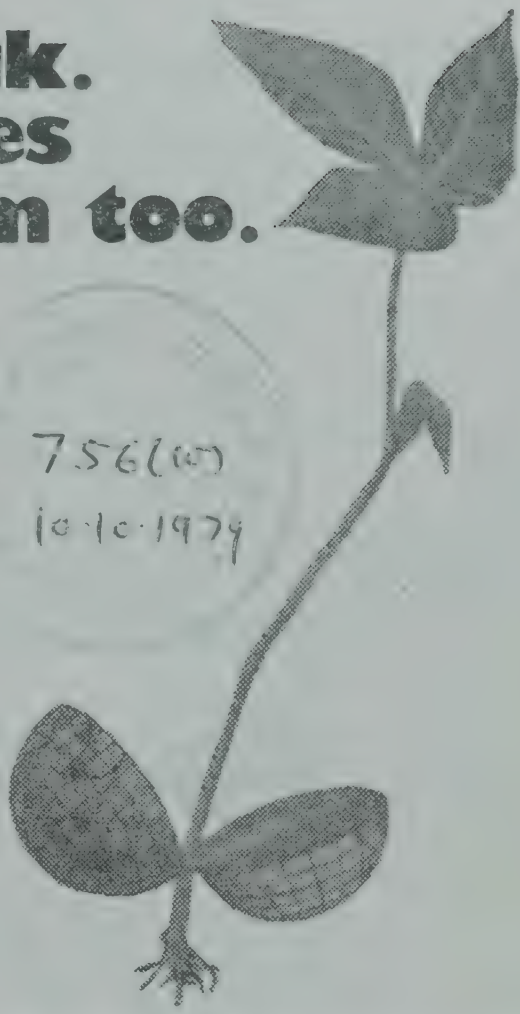

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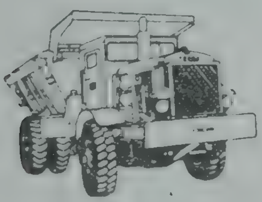

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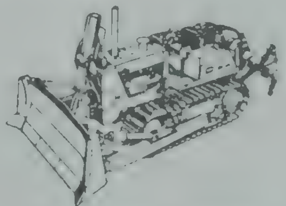

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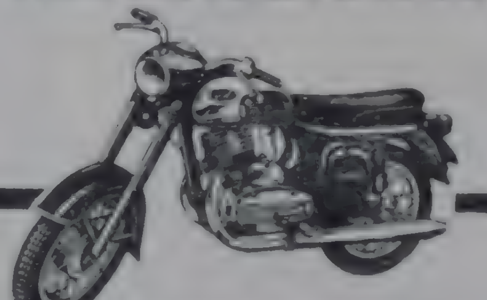

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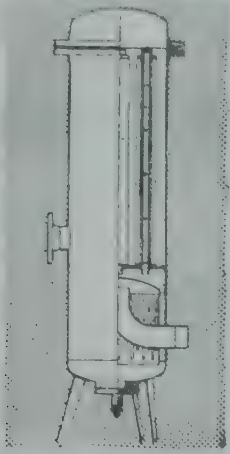

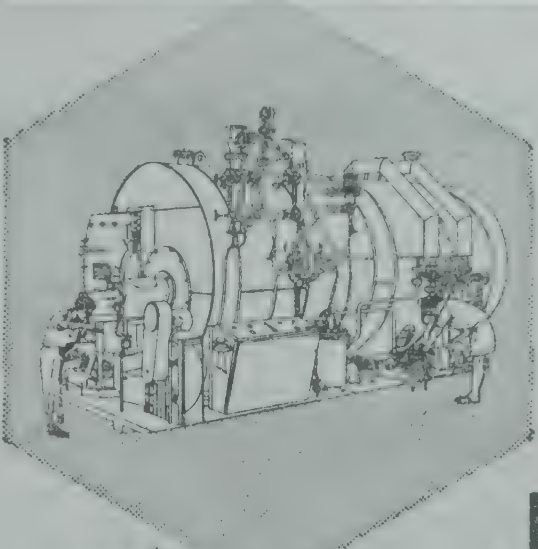

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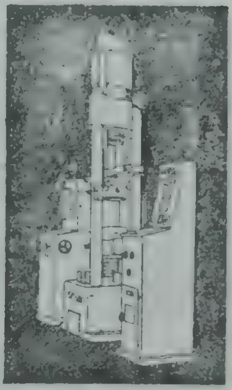

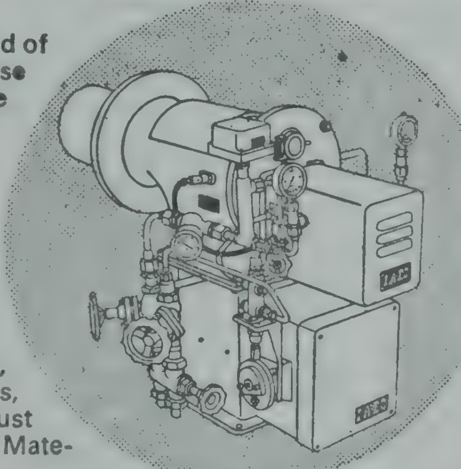

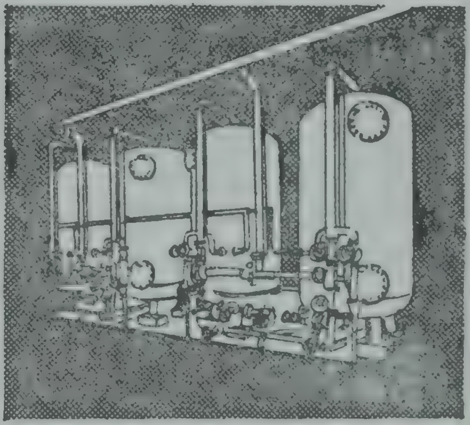

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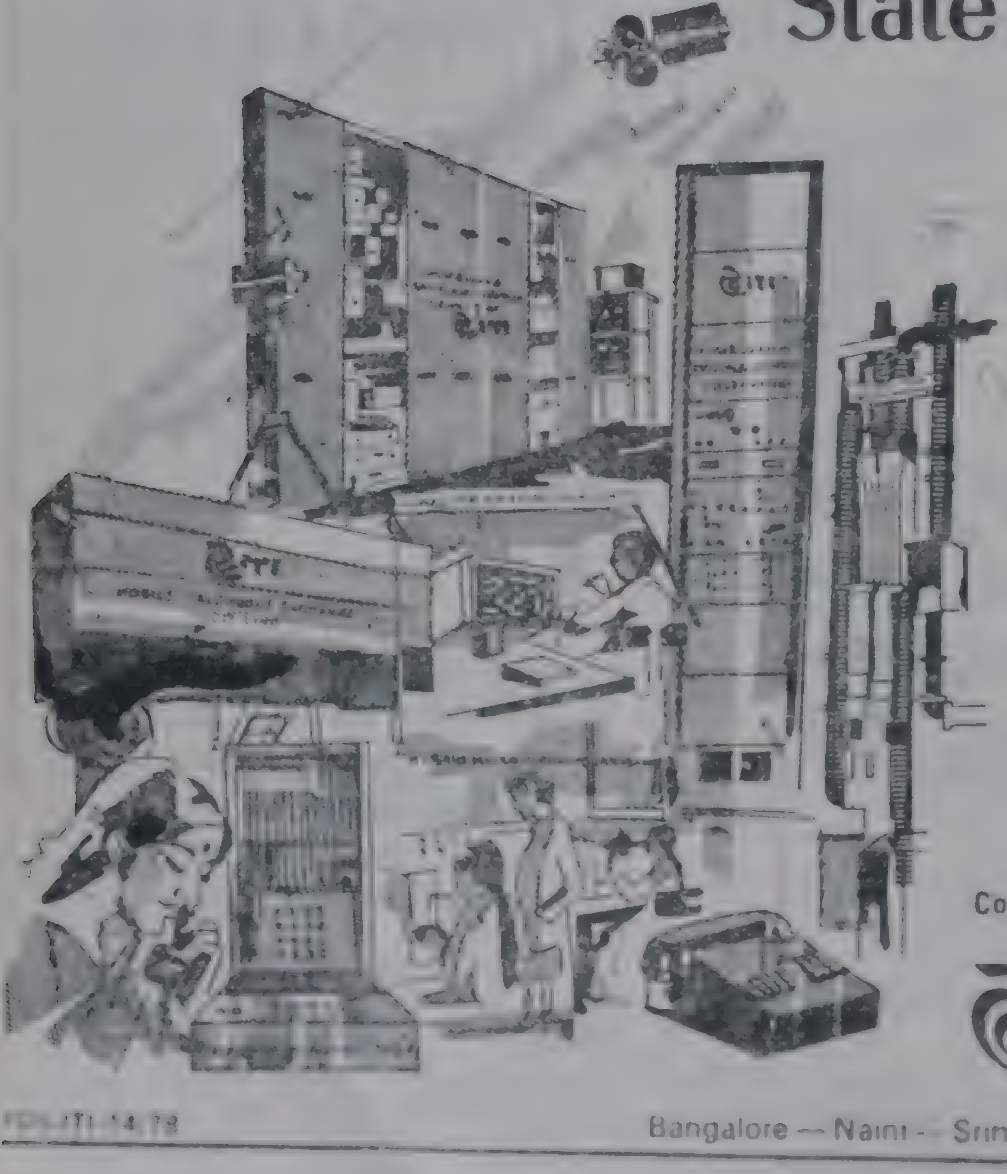

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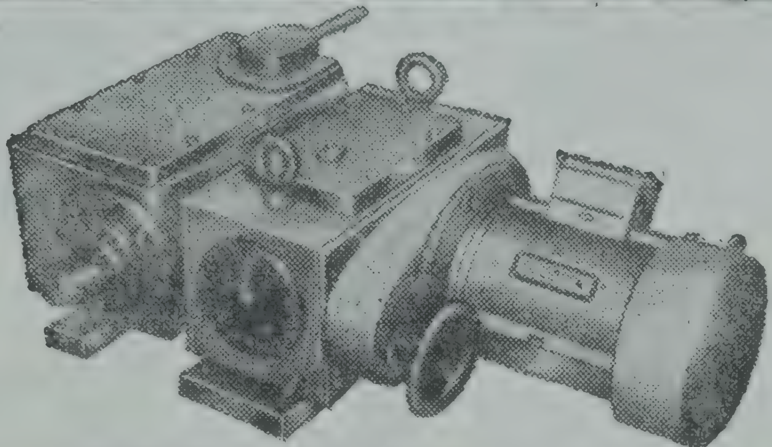

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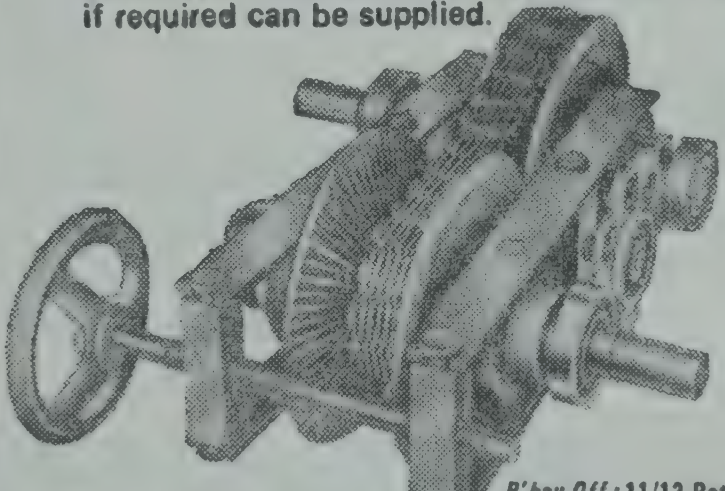

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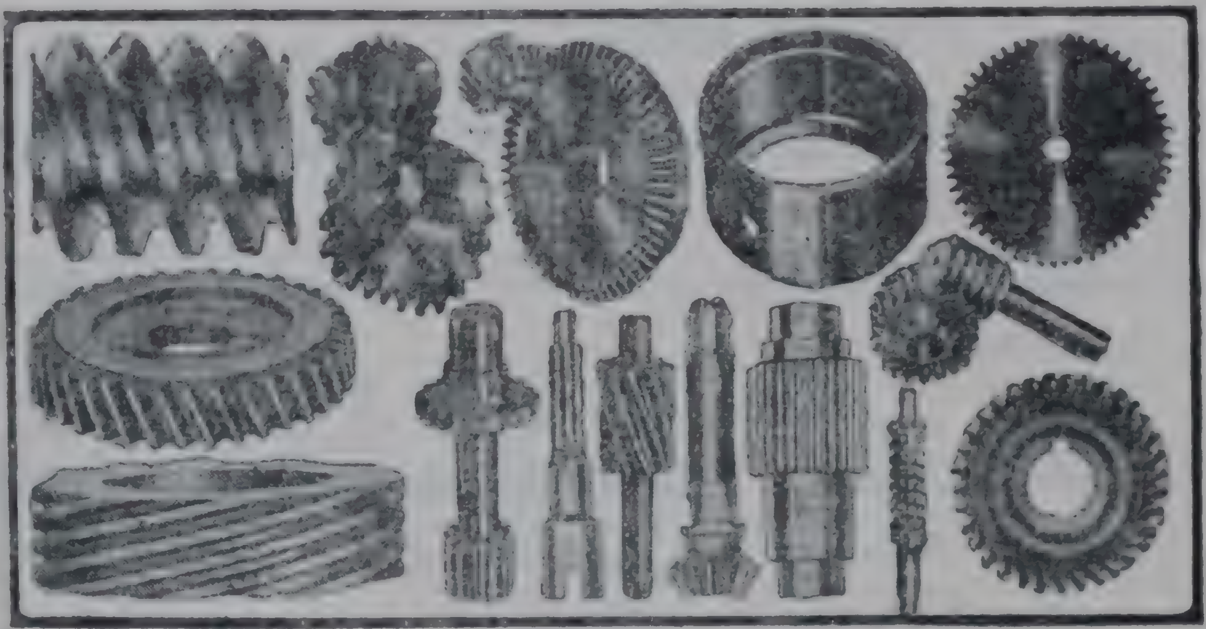

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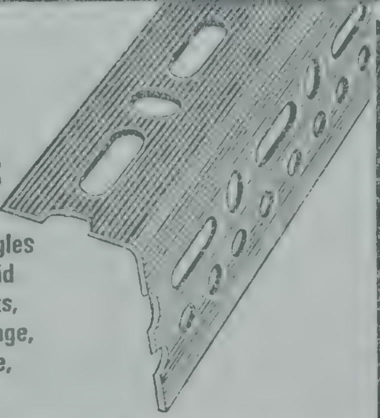

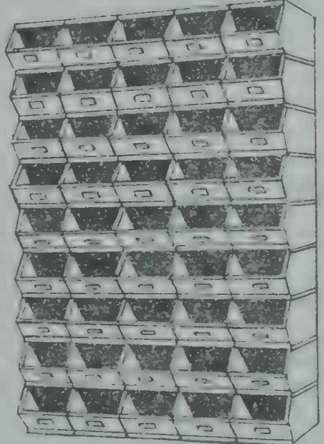

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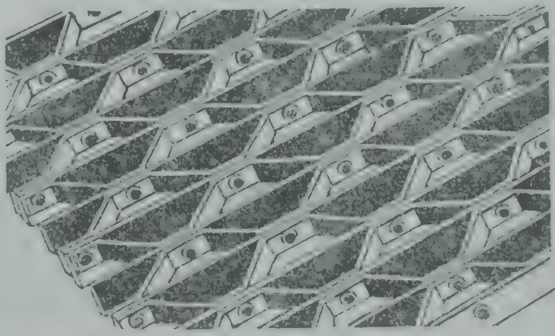

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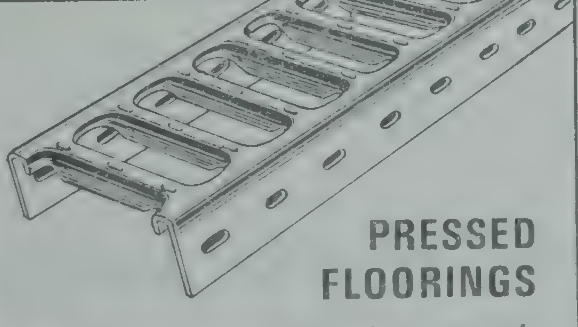

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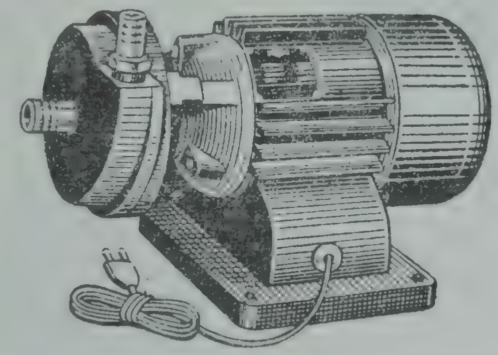

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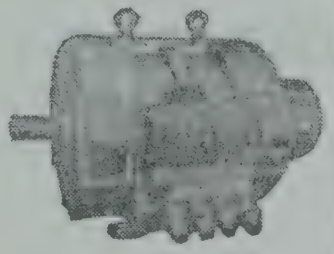

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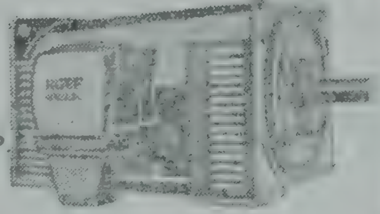

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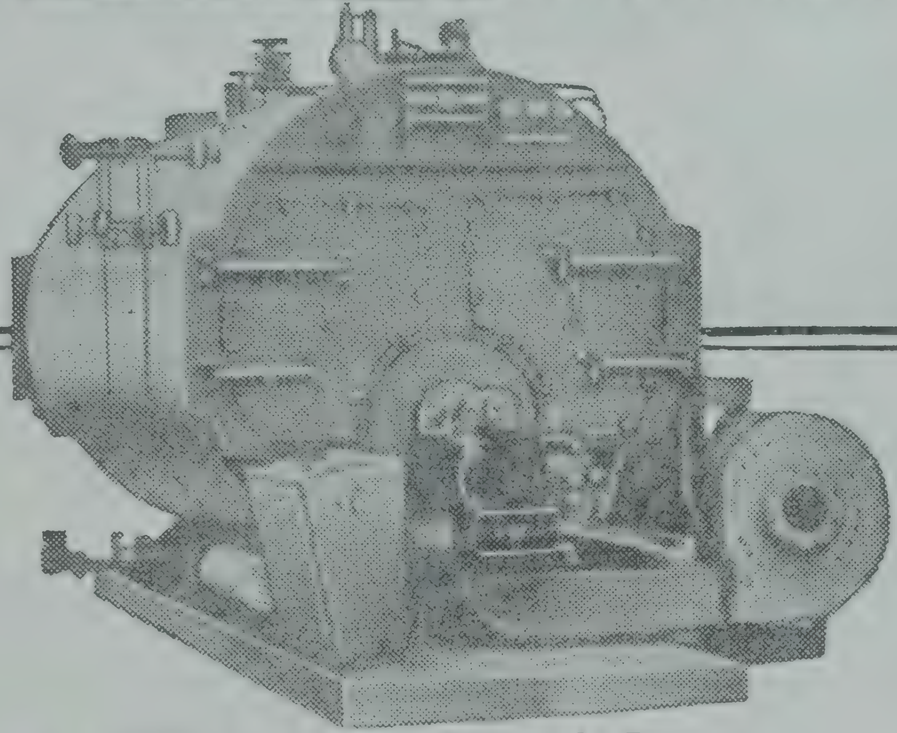

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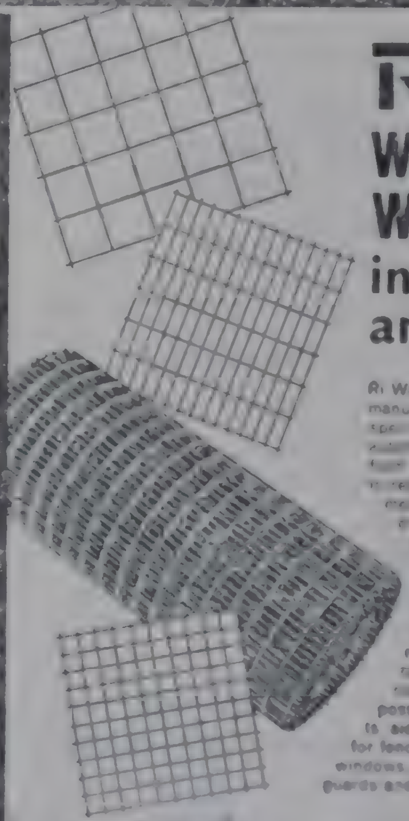

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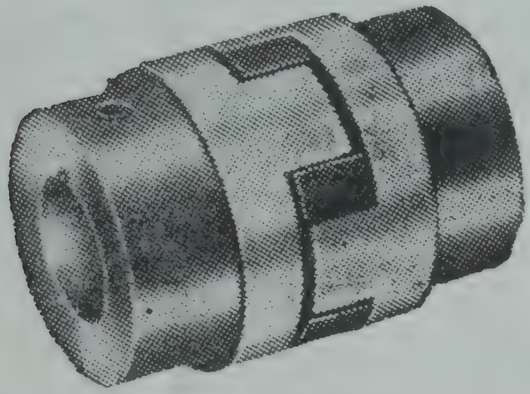

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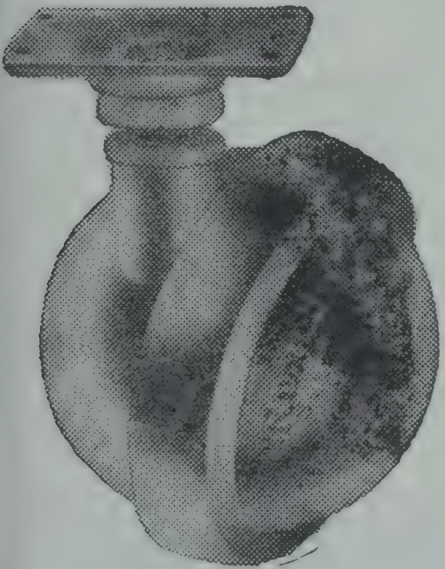

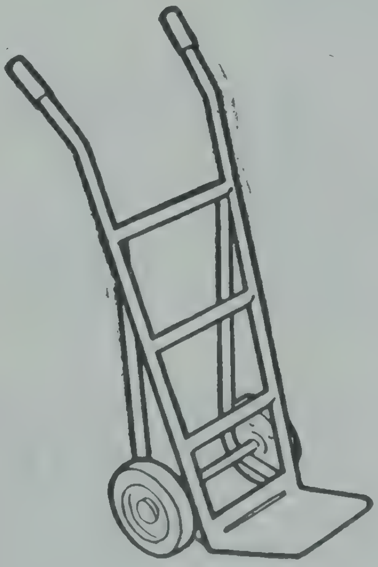

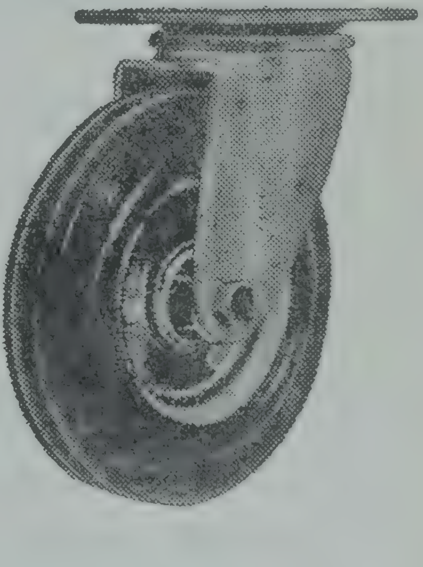

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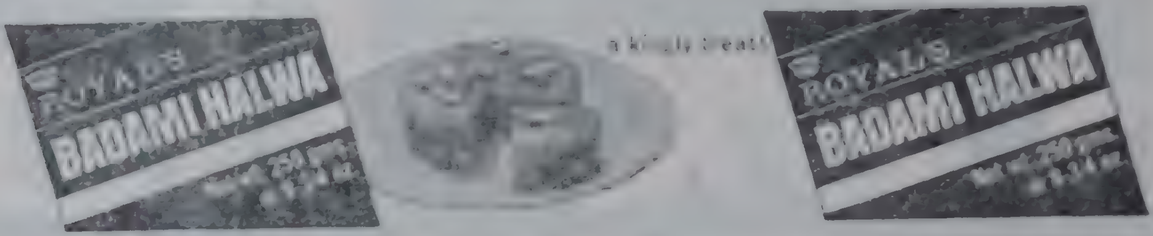

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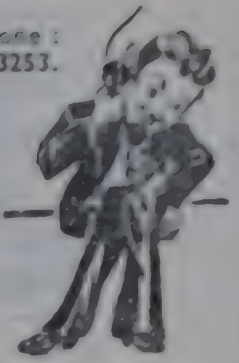

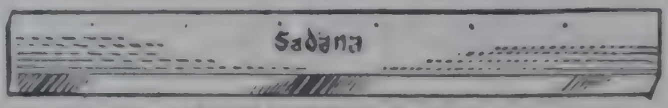

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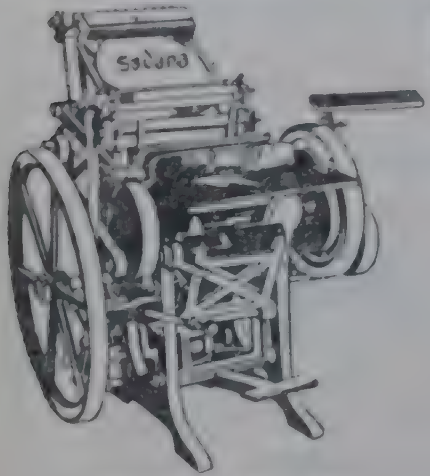

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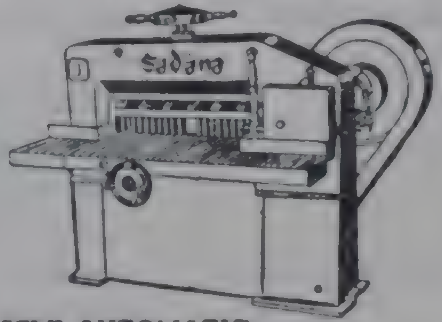

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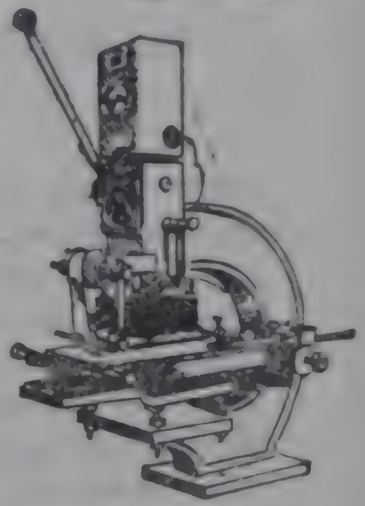

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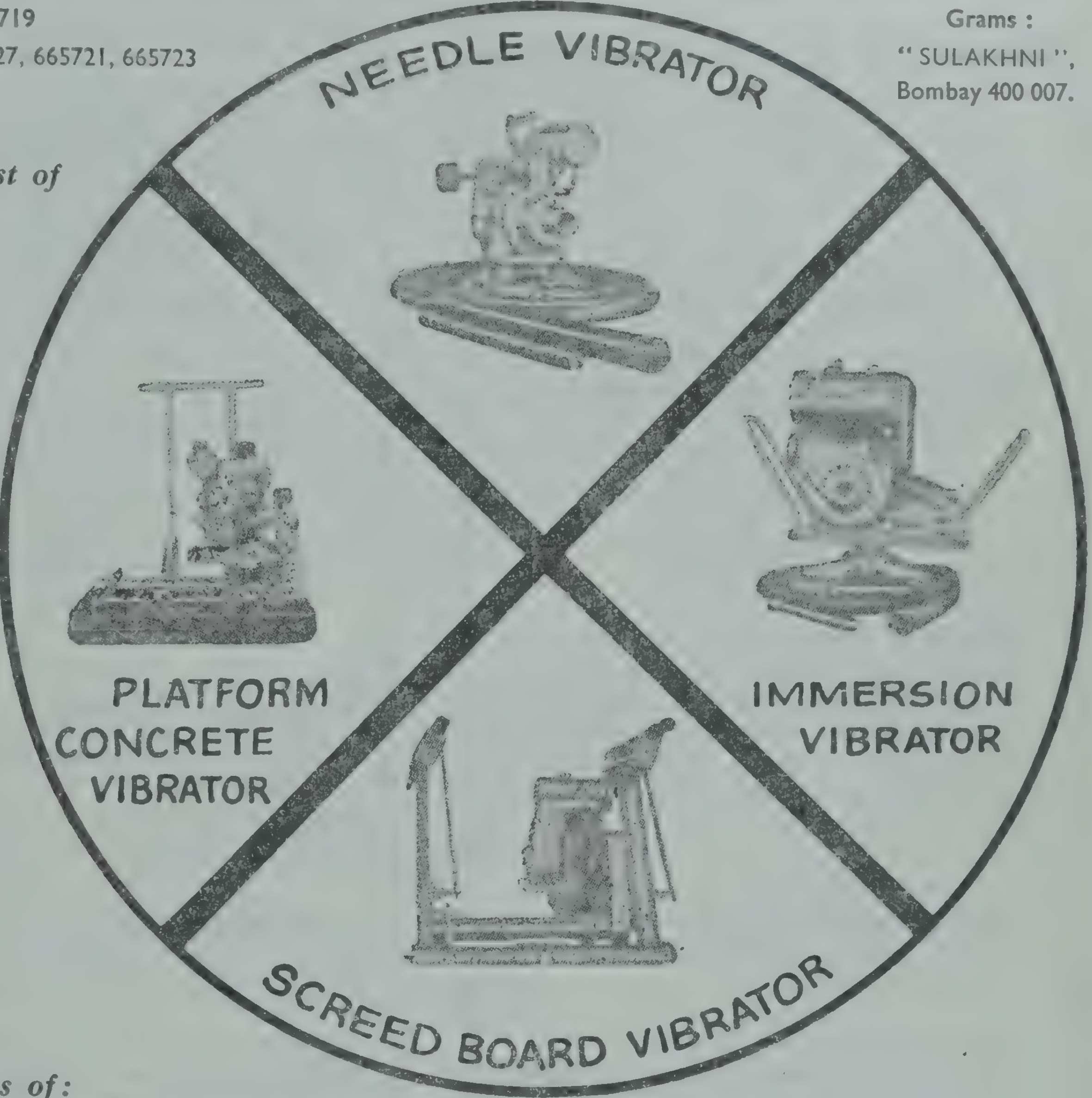
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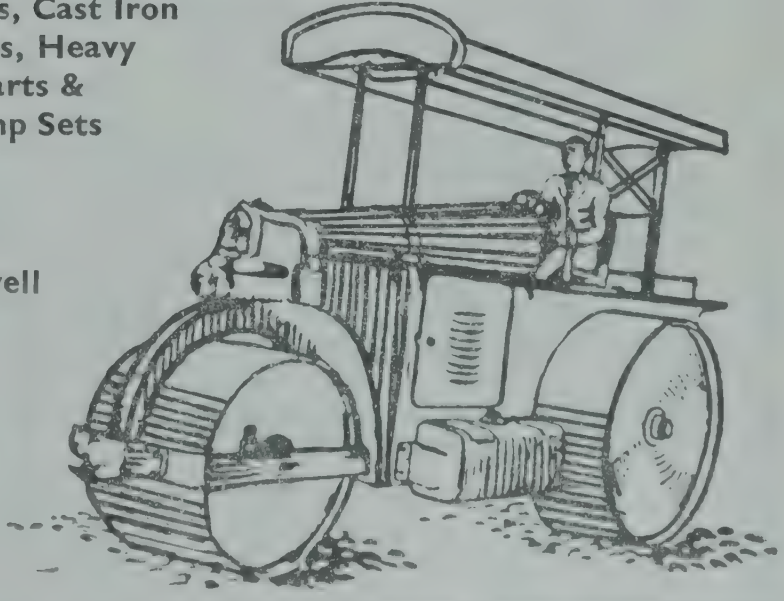

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5		9·8	9·8	7	6	6	4	½"	½"
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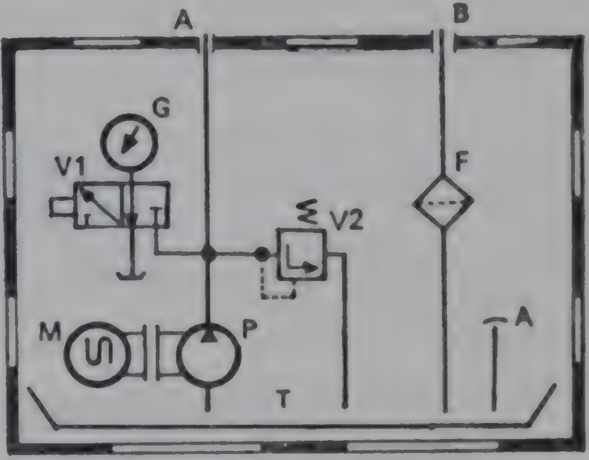

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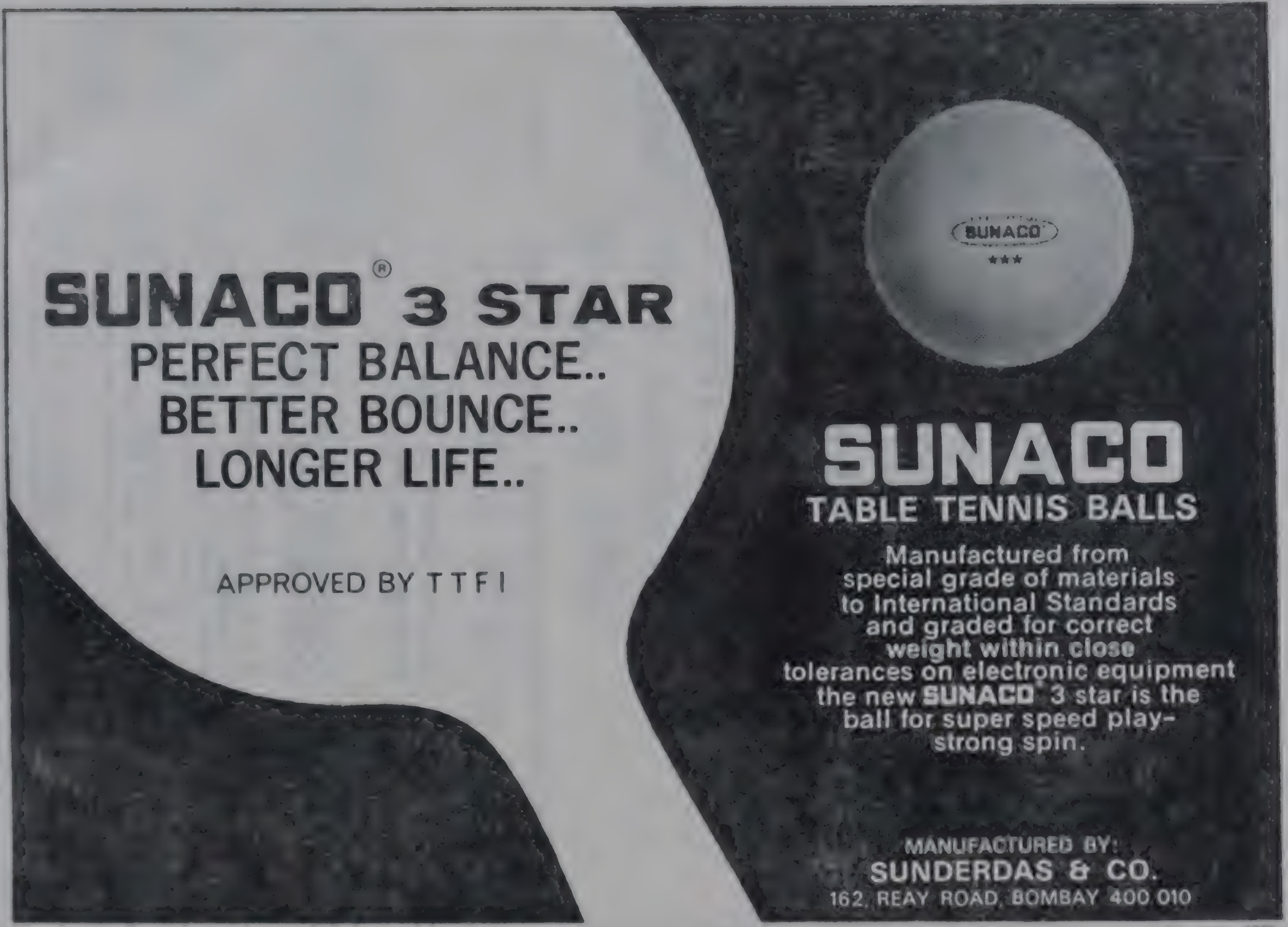

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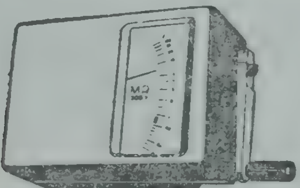

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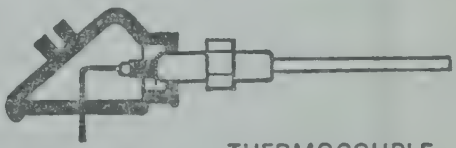

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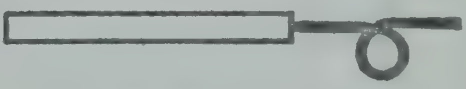

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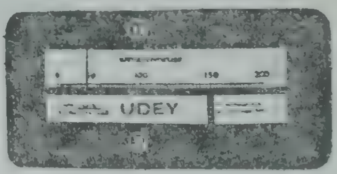

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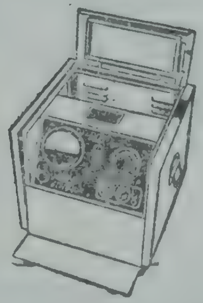

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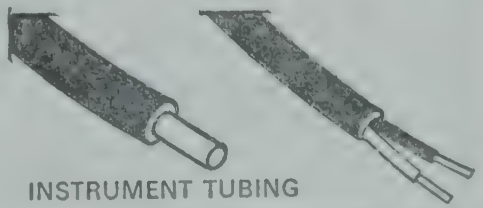

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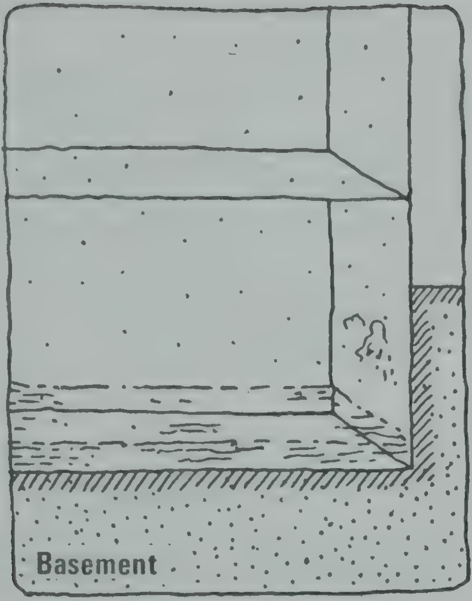

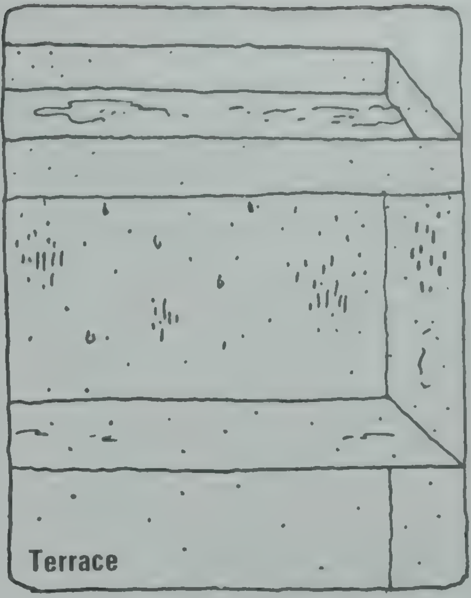

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Specialists in : Newspaper Publicity all over India and abroad ; Fully equipped to provide complete advertising services; Recognised by Newspapers all over India. Consult, for anything and everything in advertising.

Phone : 440209, Madras.
PIN CODE No. 600 018.

ADVERTISING PUBLICITY AGENTS & DESIGNERS

PIONEER PUBLICITY CORPORATION

227, CM-1, Jhandewalan, New Delhi 110 055.
Phone : 520214.
Amritsar Office : 179A, Ranika Bagh

★ Comprehensive Outdoor Advertising.
★ Best Hoarding sites in N. India.
★ Recognised Agents of Railways.
★ KIOSK on Electric Poles.
★ Painting.

ADVERTISING PUBLICITY AGENTS & DESIGNERS

RAMA PUBLICITY SERVICE PVT. LTD.

Executive Office :
Bansi House, 1/24, Asaf Ali Road, New Delhi 110 002.
Phones : 263385 & 279554 ; *Res. :* 265247.
Grams : " RAMAPUBS ".

Managing Director : Mr. R. N. Chopra.

Specialists in :
Press advtg. hoardings, neon signs, cinema slides & films, buses, reverse of match boxes, radio, T.V. and duly accredited by all Indian Railways.

ADVERTISING AGENTS

RANK ADVERTISING

Comprehensive Outdoor Advertising, Hoarding, KIOSK on Electric Poles, Neon signs—Cinema Slides (Making & Exhibitions), Painting Jobs, Accredited Agents, Indian Railways, controlling over 450 Hoarding Sites in Haryana and 750 Hoarding Sites throughout Northern India.

Office : 3F/155, Metro Cinema Road,
Faridabad 121 001. Phone : 81-2210.

Workshop : 3E/64, Metro Cinema Road,
Faridabad 121 001. Phone Extn. : 81-2210.

ADVERTISING AGENTS & CONSULTANTS

TOM & BAY (Advertising) PVT. LTD.

Registered Office :
Ashok Chambers, 658, J. M. Road,
Pune 411 004.
Phone : 54221/2. Grams : " ADLINK ".

Chairman : G. V. Tambe.
Jt. Managing Directors : A. G. Tambe, R. G. Tambe.
General Manager : P. D. Abhyankar.

Branch Office : 601, Niranjan, 6th Floor, 99, Marine Drive,
Bombay 400 002. Phone : 295307.

ADVERTISING AGENTS & CONSULTANTS

ULKA ADVERTISING PVT. LTD.

Nirmal, Nariman Point,
Bombay 400 021.
Phones: 233884, 233921, 233962. Grams: "ULKADS".
1/2, Lord Sinha Road, Calcutta 700 071.
104, New Delhi House, 27, Barakhamba Road,
New Delhi 110 001.

Branches : Calcutta, New Delhi.

Chairman : Mr. Bal B. Mundkur.
Mg. Director : Mr. Bhasker B. Mundkur.

ADVERTISING GIFTS & NOVELTIES

ADVERTISING AID

A HOUSE OF SALES PROMOTION
PUBLICITY GIFTS

60, U. B. Jawahar Nagar,
Delhi 110 007.
Phone : 227371.

Manufacturers of :
Novelties, Business Gifts, Diaries, Key Rings, **Conference Folders,** etc.
Also for silk screen printing.

ADVERTISING GIFTS & GIVE-AWAYS

AMIT ADVERTISERS

High Class Stationers & Advertisers. Deals in :
All types of Advertising Gifts & Plastic Novelties, such as, Diaries, Purses & Pen Stands, Ballpens etc. Our speciality in new range of Key Chains.

17-A, Kamla Nagar,
Delhi 110 007.

ADVERTISING GIFTS & NOVELTIES

BHAMBRI PLASTICS

D-1, Rana Pratap Bagh,
Delhi 110 007.
Phone : 226644.

Manufacturers of : Gift-cum-Sales Promotion and Publicity Articles like Key Chains, Pencils, Diaries & Calendars.

We are Specialised in: GIFT-PACK items for manufacturers of different trade.

ADVERTISING GIFTS & NOVELTIES

CAPITAL ADVERTISERS

Manufacturers-Exporters : Exclusive presentation novelties such as pen-stands, calendars, ashtrays, key-chains, diaries, purses, conference folders, stickers, etc.

4860/24, Darya Ganj,
New Delhi 110 002.
Phone : 279989. Grams : " GIFTKING ".

ADVERTISING GIFTS & NOVELTIES

MALBROS INDUSTRIES

Manufacturers of :
Advertisement Novelties & Gifts of Modern & Latest Design.

Office :
1816, Chandni Chowk, Delhi 110 006. Phone: 278 372

Factory :
A-79/1, Wazirpur Industrial Area. Phone : 741811

ADVERTISING GIFTS & NOVELTIES

MARF & COMPANY

Remembrance Advertising

Manufacturers of : Diaries, Wallets, Table Pads, and all other Advertising Media in Plastic, Rexine, Leather & Metal.

362, V. P. Road, Bombay 400 004.

Phone : 353222. Grams : " ARMORIDE."

ADVERTISING GIFTS & GIVE-AWAYS

GRANDWAY ADVERTISERS

2322, Teliwara, Sadar Bazaar,
Delhi 110 006.
Phone : 511898.
Grams : " GRANDWAY ".

Exporters, Manufacturers & Suppliers of :
CALENDARS, DIARIES, PURSES, PLASTIC NOVELTIES, KEY CHAINS, STEEL NOVELTIES etc.

ADVERTISING GIFTS & NOVELTIES

PREMIER PLASTIC

Leading Plastics Mfrs. of Publicity Novelties, Penstands, Key Holders, Wallets, Diaries, Table Pads, Files and other goods as per customer's own specification.

Showroom : 3150, Barh Wala Chowk, B. G. Road,
Delhi 110006.

Office : 1522, Aziz Ganj, B. G. Road, Delhi 110 006.

Phone : 529628 Ext. to Office.

ADVERTISING GIFTS & GIVE-AWAYS

SRB advertising gifts create an impact

That's why leading Companies all over India give away SRB Gifts Year after Year.

YOU GET CHOICE, QUALITY, DELIVERY

Let's make some gifts for you too !

S. R. BROTHERS

406, Commerce House, Nagindas Master Road,
Bombay 400 023.
Phones : 272373 — 271179.

ADVERTISING GIFTS & NOVELTIES

NARENDRA BROTHERS

2E/22, Jhandewalan Extn.,
New Delhi 110 055.

Phones : 527852 & 528521.

Manufacturers of :

ENBRO exclusive Gifts & Sales Promotion Novelties in Plastic & Sheet Metal like Telephone Indexes, Penstands, Ash Trays, Pencil Trays, Tumblers, Bottle Openers, Wall & Table Calendars etc.

ADVERTISING GIFTS & NOVELTIES

PREMIER PLASTICS

Manufacturers & Exporters of :

Plastic Wallets, Diaries, Diary Covers, Folders, Files, Conference Folders, Zip, Portfolios, Key Cases, Writing Pads, Ladies Handbags, Passport Covers, Badges. According TO YOUR SPECIFICATION.

303, Abdul Rehman Street,
Bombay 400 003.
Phones : *Office* : 327065 & 326759 ; *Resi.* : 350365.
Cable : " VIKASPORT ".

ADVERTISING GIFTS & NOVELTIES MFRS.

SHANTI PLASTICS

1306, Prasad Chambers, Bombay 400 004.
Phones : 360338/388219/463706.
Telex : 011-4705. Grams : " SHANTIGIFT ".

Manufacturers & Exporters of :

Top quality vinyl folders over twenty varieties available from ready stocks for seminars, quotations, reports, leaflets, etc. Also Plastic Folders & Covers made to clients' specifications with their ad. message printed. Prompt & Firm Delivery given.

AERATED WATER MANUFACTURERS

DUKE & SONS (PVT.) LTD.

CHEMBUR, BOMBAY 400 088.
Phones : 524143 & 524516

Manufacturers of Quality Aerated Beverages :

MANGOLA, SODA, ORANGEOLA, LEMON & KING KOLA

AERATED WATER MACHINERY & REQUISITES

ESOOFALY MAHOMEDALY & CO.

(Estd. : 1845)

Dealers in :—Aerated Water Requisites.

Sole Selling Agents :

INDIAN CARBON DIOXIDE INDUSTRIES, MADRAS

CARBONIC INDIA, THANE, BOMBAY

for Dry Ice & Liquid C_{02} gas.

Head Office : 102/4, Sarang Street, Bombay 400 003.
Grams : "PURIFIED ". Phones : 326516 & 325633.
Branches : 12, Walltax Road, Madras 600 003.
Phone : 33400. Grams : " HARMLESS ".
13-11-233, Convent Street, Park Road, Vijayawada-1.
Phone : 71004. Grams : " PURIFIED ".
Also at : Shivaji Road, Kolhapur.

AERATED WATER MACHINERY & REQUISITES

T. ALIMAHOMED & CO.

(Estd. 1924)

Stockists of Aerated Water, Bakery and Confectionery requisites, P.P. Caps & P.P. Sealing machine.

144-46, Sarang Street, Bombay 400 003.

Phones : 326663 & 327131. Grams : "AERATORS ".

AERIAL ROPEWAY

TASHI ROPEWAYS

PHUNTSHOLING

BHUTAN

AGARBATHIES (Indian Insence Sticks)

Manufacturers & Exporters of :
" CYCLE BRAND ", Sugandha Mallika Agarbathies.

N. RANGA RAO & SONS

VASU & CYCLE BRAND AGARBATHI WORKS
P. B. No. 52, MYSORE 570 004 (India).
Phones : 21227 & 20259. Grams : " VASUBATHI ".
Export : 24026. TLX : 846-219-NRRS-IN.

AGRICULTURAL IMPLEMENTS & SPARES

MODERN FARM AIDS

Manufacturers of :
' Crocodile ' Brand Modern Agricultural Implements, Harrow discs and other Spares.

4-E/8, Jhandewalan Extn., New Delhi 110055.
Phones : 52-1007, 22-1105.

Works :
A-5/C, Modern Ind. Estate, Bahadurgarh 124507 (Haryana). Phone : 292.

AIR COMPRESSORS

LAL CHAND & SONS

Manufacturers & Suppliers of :
SHAKTIMAAN make Petrol & Diesel Driven Portable Generating Sets ; Engine Driven Battery Charging Sets ; MASTER Air Compressors ; Electric Motors & Monoblock Pumping Sets; Industrial Coolant Pumps & Blowers; Baby Boilers; Vulcanizing Machines; Flexible Couplings, etc.

Office Address : 53, Shardhanand Marg, Delhi 110 006.
Office Phone : 527178 *Residence Phone :* 227870.

AIR-COMPRESSORS & PARTS DEALERS

P. RAI & COMPANY

121, Commerce House, 140, Nagindas Master Road,
P. B. No. 139-A, Bombay 400 001.
Phones : *Office :* 272419, 272853 ; *Resi. :* 573640.

Manufacturers of :
Air Compressor Parts, Air Filters, Pressure Regulators, Lubricators, Solenoid Valves, Air Cylinders, Control Valves, Pressure Switches, Flow Control Valves, Non Return Valves, Quick Exhaust Valves, Dehumidifiers etc.

AIR-CONDITIONING & REFRIGERATION

AMERICAN REFRIGERATOR CO. LTD.

REFRIGERATION & AIRCONDITIONING ENGINEERS

Manufacturers of : Famous ' ARCO ' Window type 1 ton & 1½ ton Air Conditioners, Water Coolers, Refrigerators, Packaged Air Conditioners, Bottle Coolers, Industrial Fans & Blowers, centrifugal, axial, material handling and Dust extraction type, ARCO Bush Coils, Condensers, Chillers, Heat Exchanger and Hydraulic Presses.

Sole Agents for : TRANE Air Conditioning and Refrigeration Equipment, TRION Electronic Air Filters, Barber-Coleman Controls and Air distribution equipment in India.

Contractors for: Airconditioning, Ventilation, Cold Storage and Industrial Refrigeration plant.

HEAD OFFICE: 13/C, Russell Street, Calcutta 700 071.

Branches: Sadhana Rayon House, D. N. Road, Bombay 400 001.
20-A, Najafgarh Road, New Delhi 110 015.
150/A/3, Mount Road, Madras 600 001.

AIR-CONDITIONING & REFRIGERATION ENGINEERS

BOMBAY AMMONIA PRIVATE LTD.

Head Office : 298, P-Nariman Street,
City Ice Bldg., Fort, Bombay 400 001.

Branch Office at : New Delhi.

Suppliers of Refrigeration & Air-conditioning Equipment for Cold Storages, Ice Plants & Central Air-conditioning Plants and Water Chilling Plants.

Phones : H.O. 269761, 269762. Telex : 011-3295.

AIR-CONDITIONING & REFRIGERATION ENGINEERS

BOULTON TRADING CORPORATION

7, Lentin Chamber, Ground Floor, Dalal Street,
Fort, Bombay 400 023.
Phone : 273937.

Refrigeration and Air-Conditioning Machines & Spares for Freon & Ammonia Plants, Freon Gases, Compressors, Copper Tubings, Expansion Valves, Driers, Relays, Overloads, Capacitors, Tools & Fittings.

AIR-CONDITIONING & REFRIGERATION EQUIPMENT

CHATUR PARMANAND VASWANI

59, Dr. V. B. Gandhi Marg (Forbes Street),
Bombay 400 001.
Phones: 251340, 259959. Grams: " CLIMATEER ".

PREMIER IMPORTERS OF SPARE PARTS FOR TECUMSEH/COPELAND/MELCO COMPRESSORS AND ROTARY SEALS FOR OTHER COMPRESSORS INCLUDING CARRIER WORTHINGTON ETC.

AIR CONDITIONING & REFRIGERATION

FRIGTOOLS REFRIGERATION & ENGG. CO.

1, Darya Ganj, New Delhi 110 002.
Phone : 274014.

Manufacturers of :

Refrigeration Tools, Valves, Fittings, Cylinders, Accessories, Gas charging and Evacuating equipments, Copper fittings, Leak detectors, Air conditioning & Cold storage machinery and Food testing instruments.

AIR-CONDITIONING & REFRIGERATION EQUIPMENTS & FITTINGS

GORAKHRAM HARIBUX

4, Ground Floor, Apeejay House,
130, Bombay Samachar Marg, Bombay 400 001.
Phones: 256118, 290656, 573451, 575210, 583799.

Dealers for :

Starting and Running Capacitors, Freon Mafron Refrigeration Gases, Open & Sealed Type Freon Compressors, Copper Tubes, Expansion Valves, Gauges & Tools and Controls Daly Thermometers.

AIR-CONDITIONING & REFRIGERATION

KUNDALIA REFRIGERATIONS

7, Netaji Subhash Marg, New Delhi 110 002.
Phones : 271810 & 279639.

Northern India Distributors for :

AUE F.H.P. Motors & Cooler Pumps, Unistar Capacitors, Arvind Relays & Overloads. Authorised Dealers for : Shriram Compressor, Danfoss Products, Indo-American/Hindustan. Super Enamelled Copper Wire and Dealers for Copper Tubings, Freon Gases, Room & Desert Coolers, Plastic Components for Coolers and Electrical Appliances.

AIR-CONDITIONING & REFRIGERATION EQUIPMENT & FITTINGS

MODERN AIR-CONDITIONING & REFRIGERATION SERVICES

Air-Conditioning & Refrigeration Equipment Parts, Compressors, Motors, Gases, Copper Tubings and Capillaries, Capacitors, Relays, Overloads, P.V.C. Gaskets Driers, Rubber Goods etc.

T. H. Kataria Marg, Mahim,
Bombay 400 016.
Phone : 465249.

AIR CONDITIONING & REFRIGERATION

PEARL TRADING CO.

A-25, Defence Colony, New Delhi 110 024.
Phone : 624638.

Sales Office :

3813/XI, David Street, Daryaganj, New Delhi 110 002.
Phones : 277180, 271241.

Dealers in :

Refrigeration, Air-Conditioning Spares, Tools, Spray Nozzles, Thermometers, PVC Gaskets etc.

Sole Distributors for:

" P.T.C. " Brand Quality Refrigeration Products.

AIR-CONDITIONING & REFRIGERATION ENGINEERS

THE POWERCRAFTERS

31, M. Karve Road, Bombay 400 004.
Phones : *Office* : 356003 ; *Works* : 380964.

Headquarters for Sales Service :

All types of Industrial, Marine, Domestic Refrigerators, Air Conditioners.

AIR-CONDITIONING & REFRIGERATION ENGINEERS

THE RADIOCRAFTERS

Opp. Charni Road Railway Station,
Queen's Road, Bombay 400 004.

Phones: Office : 354406, Works: 356003 & 380964.

Headquarters for Sales Service

All types of Industrial, Marine, Domestic Refrigerators, Air Conditioners.

AIR-CONDITIONING & REFRIGERATION

SNOWTEMP ENGINEERING COMPANY LIMITED

Registered Office & Works :
Mathura Road, Faridabad 121 003 (Haryana)
Phones : 825367, 825368 & 825384.

Manufacturers of :

Air-conditioning & Refrigeration Compressors, Equipment, Packaged Units, Heat Exchangers with Technical know-how of World Famous " YORK ", Microvee & other Sophisticated Filters.

AIR-CONDITIONING & REFRIGERATION ENGINEERS

STAR FREEZ INDUSTRIES

Gazdar House, Dhobi Talao, Bombay 400 002.

Phones : Office : 298343, 291332. Res.: 473728.

Manufacturers of : Industrial Refrigerators, Air-Conditioners, Water Coolers, Chilling Plants, Deep Freezers, etc. Importers of Open & Sealed Type Compressors, Freon, Methylchloride, SO_2 Gas, Copper Tubings, Thermostat, etc.

AIR CONDITIONING & REFRIGERATION

QUICK REFRIGERATION CO.

2nd-C-54, Lajpat Nagar,
(Near Defence Colony, Fountain)
New Delhi 110 024.

Phone : 621720.

Refrigeration, Air-Condition & Car Air-condition Repairing etc.

AIR-CONDITION SHEET METAL PRODUCTS

HINDUSTAN METAL PRODUCTS

Central Plant ducting S.A. & R.A. Grills, Filter, Cooling tower, Air handling units, Packaged type units, Fan coil units, various type of window type Air-condition sheet metal part etc.

Office & Workshop :

242, Bellasis Road,
Hoosaini Lakda Bazar,
Gala No. 24,
Bombay 400 008.
Phone : 892361.

Workshop :

26 (1) Sarvodhaya Mills Estate,
Next to 'OK' Wafers,
Tardeo,
Bombay 400 034.

AIR FREIGHT, CLEARING, FORWARDING & WAREHOUSING AGENTS

JEENA & COMPANY

10, Veer Nariman Road, Bombay 400 023.
Post Box No. 849.

Phone : 312032 *Tel. Address :* JUSTITIA"

Offices at :

New Delhi, Calcutta and Madras with Correspondents at all major Sea, and Air Ports.

AIR LINE

ALITALIA — ITALY'S WORLD AIRLINE

Branches :

BOMBAY, CALCUTTA, MADRAS.

Surya Kiran,
19, Kasturba Gandhi Marg,
New Delhi 110 001.

Phones : 383263/66 (4 lines).

AIRLINES

EGYPTAIR

Oriental House, 7, J. Tata Road, Churchgate,
Bombay 400 020.

Phones : 295862 & 295904.

Exotic jet routes (Boeing 707/320C) from :

Tokyo to London *via* Manila/Bangkok/Bombay/Bahrain-Sharjah/Kuwait/Cairo and onto main cities in Europe/Africa.

AIRLINES

QANTAS AIRWAYS LTD.

The Australian Airline Non stop 747B to London and Australia from Bombay three times each way weekly.

Offices at :

Oberoi Sheraton Hotel, Bombay. Phone : 230297.
Hotel Hindustan International, Calcutta. Phone : 440718.
Hotel Connemara, Madras. Phones : 88680, 88649.
Janpath Hotel, New Delhi, Phones : 387844/383504.

ALUMINIUM OR ALUMINIUM PRODUCTS

AJIT METAL CORPORATION

Wholesale & Retail in :

Alum. Sheets, Wire, Rods, Pipe Channels, Patti, Rivets & All Types of Extrusion. Available 'ALUCOIN', 'INDAL', 'HINDALCO' Products from ready stock.

Godown : 9, 3rd Fophal Wadi, Bombay 400 002.

Sales Dept.: 79, Kansara Chawl, Kalbadevi Road, Bombay 400 002.

Phones : *Office :* 321716 ; *Resi.* 374109 & 386631.

ALUMINIUM

For

All kinds of Aluminium Sheets, Coils, Flats, Rods, Plates and other Aluminium Extruded Sections & Hardware Filings.

Contact :

ALUMINIUM EXTRUSIONS

B. P. High School Building,
115, Tambakanta, Bombay 400 003.
Phone : 326062.

ALUMINIUM ARCHITECTURAL/FABRICATORS

E.C.I.E. (P) LTD.

Anodized Aluminium Architectural Specialities, Entrance, Doors, Windows, Glazing, Curtain Walls, Partitions, Balustrades & Railings, Louvres, Sun Breakers, Tubular Furniture, Kitchen Cabinets, Ladders & ISI marked Builders Hardware i.e. Hinges, Tower Bolts, Handles etc. **Eastern Commercial & Industrial Enterprises (P) Ltd.**, Post Box No. 3, Tumkur Road, Bangalore 560 057 and **Industrial Estate**, Post Box No. 406, Visakhapatnam 4.

Selling Agents for Northern India
Messrs. PREM NATH & SONS
Hauz Qazi, Delhi 110 006.
Phones : Office : 525489 ; Res. : 383565.

ALUMINIUM PRODUCTS MFRS.

JINDAL ALUMINIUM LIMITED

16th K. M. Tumkur Road,
Bangalore 560 057.

Manufacturers of :

Aluminium Extruded Sections such as Angles, Rods, Strips, Mouldings, Pipes, Irrigation and Refrigeration Tubes and Bus Bars. Various other Architectural and Structural Sections etc. Copper and Copper Alloys, Pipes and Tubes and Sprinkler Irrigation Systems.

		Phones :
Office & Works :		38311 & 38312
Irrigation Divn.		38697
Branch Offices :	New Delhi	271712
	Bombay	383410

ALUMINIUM AND/OR ALUMINIUM PRODUCTS

R. KRISHNA & COMPANY

70, Kansara Chawl, Ist Floor, Room 64,
Kalbadevi Road, Bombay 400 002.
Phones : *Office* : 345196; *Resi.* : 361053
Grams : " ARKRISCOIL ".

Wholesale & Retail Stockists in :

Aluminium Sheets, Coils, Rods, Channels, Pipes, Flatbars & all other types of Extruded Sections and also other Non-Ferrous metals & General Order suppliers.

ALUMINIUM ALLOYS AND PRODUCTS

INDIAN ALUMINIUM CO., LTD.

Registered & Head Office :
1, Middleton Street, Calcutta 700 071.
Phone : 44-2371.

The Company manufactures and deals in aluminium and its semi-fabricated products viz. ingots, sheets, circles, extrusion, foil, rod, powder, paste ; also alumina and carbon paste.

Offices at :

BANGALORE, BOMBAY, CALCUTTA and DELHI.

ALUMINIUM ALLOYS & PRODUCTS

SANJAY & COMPANY

Stockists & Selling Agents of :

Hindustan Aluminium Corporation Ltd. for their Aluminium Products, Plain Corrugated and Coil Sheets, Plates, Strips, Extruded Sections, Mouldings, Structurals. To cater for your large or small requirements.

503, Gali Krishna, Katra Neel,
Chandni Chowk, Delhi 110 006.
Phones : 278836 & 263344.

ALUMINIUM ARCHITECTURAL BUILDING PRODUCTS

AJIT INDIA PRIVATE LTD.

6th Floor, Ramon House, 169, Backbay Reclamation,
Bombay 400 020.
Phone : 294353. Grams : ALUGLAZE
Telex : 011-2802.

Doors, Windows, Partitions, Shop Fronts, Curtain Walling, Louvres, False Ceiling, Northlight Glazing and other architectural products manufactured with foreign collaboration incorporating latest techniques and designs.

Branches : Calcutta, Delhi, Madras, Hyderabad, Bangalore, Ahmedabad.

ALUMINIUM & COPPER BASED

ALLOY EXTRUSIONS & THEIR
END PRODUCTS

JEEWANLAL (1929) LIMITED

Liberty Buildings, Marine Lines, Bombay 400 020.
Phone: 291156. Telex: CROWN (BY) 011-3374

Manufacturers & Exporters of :

CROWN BRAND Aluminium utensils and anodized articles; Suppliers of Aluminium in all forms for industrial uses.

ALUMINIUM DOORS WINDOWS MANUFACTURERS

AHLUWALIA & CO.

Aluminium Ladders, Doors Windows/Partitions, Louvres, Trolleys Fabrication Jobs in Aluminium as per drawings undertaken.

4433, Shahtara Street, Ajmeri Gate,
Delhi 110 006.
Phone : 524806.

ALUMINIUM LADDERS MFRS.

FAMOUS LADDERS MANUFACTURING CO.

128-130E, Victoria Road, Byculla,
Opp. : Masina Hospital, Bombay 400 027.
Phones: 376447, 372244. Grams: "SAFELADDERS".

Pioneers and Largest Manufacturers of :

All types of ALUMINIUM LADDERS such as Single & Folding Ladders, Wall Supporting & Self-Supporting Extension Ladders, Telescopic Wheeled Ladders, Jeep Mounted Tower Ladders & Fire Fighting Ladders.

ALUMINIUM LADDERS MANUFACTURERS

SUMER & CO. (REGD.)

Manufacturers & General Order Suppliers in :

Aluminium Bath Room Fittings, Specialists in 'SUMER' Brand Aluminium Ladders, & Bath Room Fittings, Ladders : Wall Realining, Stool Type, Fire Brigade Extendable, Straight Foldings etc.

Sales Office :

3477/1, Gali Bajrang Bali,
Chawri Bazar, Delhi 110 006.
Phone : 269598.

ALUMINIUM MERCHANTS

KUTIR UDYOG KENDRA

58/3, Biplabi Rash Behari Basu Road (Canning Street),
Calcutta 700 001.
Phones : *Office :* 33-5131 *Resi. :* 44-2445
Grams : "KUTIRUDYOG". Telex : 021-7505
Branch : JAIL ROAD, GAUHATI 1. Phone : 27422.

Specialists in :

- ALUMINIUM WIRES
- ALUMINIUM PLAIN SHEETS
- ALUMINIUM COIL SHEETS
- ALUMINIUM CHEQUERED PLATES
- ALUMINIUM CORRUGATED SHEETS
- ALUMINIUM RIDGES

CUSTOMER'S SATISFACTION IS OUR MOTTO

ALUMINIUM SHEETS ETC.

ALLIED ALUMINIUM

46, Bhuleshwar Road,
Bombay 400 003.

All kinds of Aluminium Extruded Sections, Sheets, Coils, Plates, Architectural Products of :
GUJARAT — HINDALCO — INDALCO etc.

Distributors for :

GUJARAT ALUMINIUM EXTRUSIONS PVT. LTD., BARODA.

ANALYSTS

URALAB

Consultants & Analysers for:

Chemicals, Drugs, Cosmetics, Foods, Minerals, Ores, Oils, Oil Cakes, etc.

Aman Chambers, 7th Floor, 113, New Queen's Road,
Bombay 400 004.
Phone : 355776.

Undertakes Research on Industrial Problems

ANALYSTS (ANALYTICAL CHEMISTS)

CHEM — MED ANALYTICAL LABORATORIES

Chemical & Microbiological and Biological Analysis & Sampling including Preshipment exports of Pharmaceuticals, including Infra Red, G.L.C., Pyrogens and Toxicity tests, Chemicals, Drugs, Oils, Ice Creams, Cosmetics, Foodstuffs, Minerals, Ores, Metal Alloys, Fertilisers, Insecticides and other consumer products.

5-6, Kakad Estate, Sea Face Road, Worli,
Bombay 400 018.
Phone : 377942.

ANALYSTS & SURVEYORS SAMPLERS

ITALAB PRIVATE LIMITED

Cargo Supervisors & Weighers.

Head Office: 15, Cawasji Patel Street, Bombay 400 001.
Phones : 253882, 253667 & 269703.
Grams : "ITALABO." Telex : 011-5801—ITALAB

Branch Laboratories at : Madras : 19, Govindappa Naicken Street ; Calcutta : 10, Lall Bazar ; Visakhapatnam : 20/119, Beach Road ; Bellary : XIX/37, Ganesh Temple Street, Cowl Bazar, Bellary 2; Jamnagar : 84, Panchavati Society, Pandit Nehru Marg, Jamnagar 1.

ANODISING

KIV GROUP INDUSTRIES

Sun Mill Compound, Lower Parel,
Bombay 400 013.

Also at MIDC Estate, MIRA 401 104, Thane Dist.
Phones : 375103 & 663458.

Industrial Parts, Aluminium Builders, Hardware.
Also
Fabrication of structurals, components, embossed labels and pressing.

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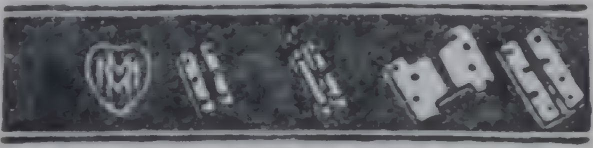

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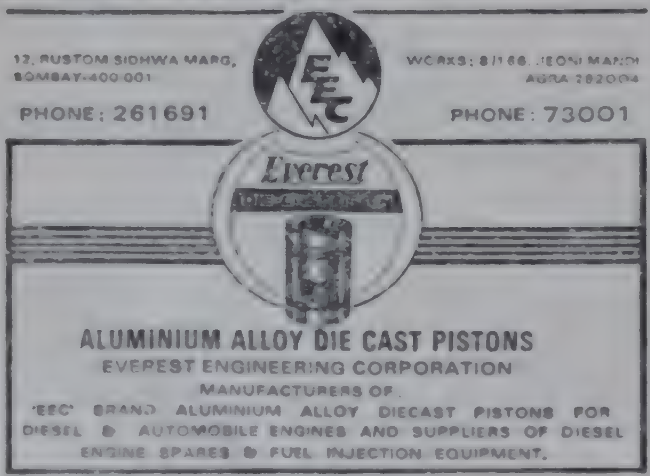

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DYECHEM CORPORATION

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DYESTUFFS

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Works :	522141
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Telex : 011-3085.

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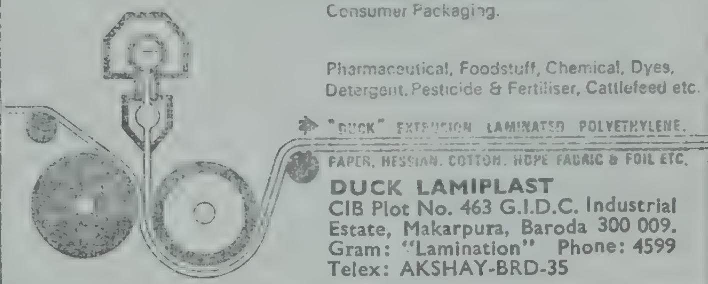
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Phones: Shop 261597. Residence-cum-office: 229870.

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Office : 35, Chawri Bazar, Delhi	[illegible]
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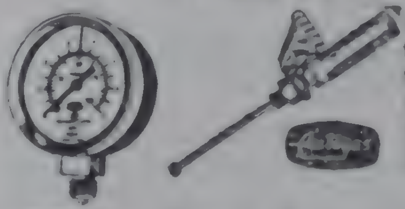

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Calcutta : 211 207, Upen Banerjee Road, Behala, Calcutta 700 060.
Delhi : A-42, Rewari Line, Ind. Area Phase II, Mayapuri, New Delhi 110 027.
Madras : Plot No. 76, Ambattur Ind. Estate, Ambattur, Madras 600 058.
Nagpur : Shed A-7, Plot B-11, M.I.D.C. Ind. Estate, Hingana Road, Nagpur.
Ahmedabad : A-1/3, G.I.D.C. Ind. Estate, Naroda, Ahmedabad.

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Phone : 26-3424. Grams : " LAXMITYPE ".

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Telephones : 443249 & 445490.

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Phone : 255347.

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BOMBAY ART PRINTERS

for
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Frere Road, Bombay 400 001. Phones : 263201-2-3.

Chief Executive : R. Nathan.
Manager : D. G. Deolekar.

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Unit No. 2 ASOKA PRESS, Gokhale Road South,
Bombay 400 028. — Phone : 454293.

Unit No. 3—Elar Bldg., Senapati Bapat Marg,
Bombay 400 028 — Phone : 453963.

Unit No. 4 : Shri Laxmi Silk Mills, Kasturchand
Mills Estate, Bombay 400 028 — Phone : 45[illegible]

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Residence : 694465.

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(FATEH) 011-4719 Purchase & Sales Deptts.

Registered Office : P.O. Baroda Rayon, Udhna,
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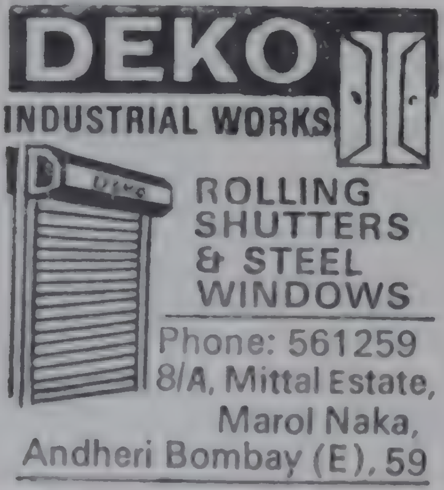

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Phone : 324944. Grams : "KACHERIA", Mandvi, Bombay.

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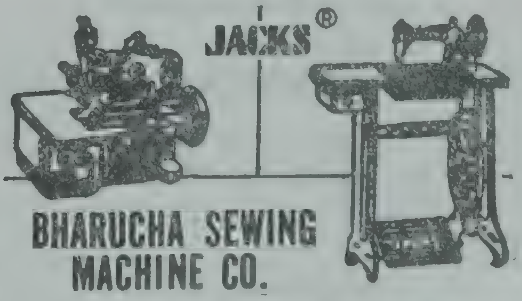

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CONSTITUTION

THE Indian Constitution was adopted by the Constituent Assembly on 26th November, 1949, and came into force on **26th January, 1950.** The Preamble embodies the resolve to secure for all citizens: **Justice** — ocial, economic and political; **Liberty** — of thought, expression, belief, faith and worship; **Equality** — of tatus and of opportunity; **Fraternity** — the assurance o uphold the dignity of the individual and unity and ntegrity of the nation.

India is a Sovereign Socialist Secular Democratic Republic with a parliamentary form of government elected on the basis of universal adult franchise.

THE UNION & ITS TERRITORY : India is a union of 22 States and 9 Territories. These are : STATES :— Andhra Pradesh, Assam, Bihar, Gujarat, Haryana, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghaaya, Nagaland, Orissa, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh and West Bengal. UNION TERRITORIES — Andaman & Nicobar Islands, Arunachal Pradesh, Chandigarh, Dadra & Nagar Haveli, Delhi, Goa, Daman & Diu, Lakshadweep, Mizoram and Pondicherry.

CITIZENSHIP: [ART. 5–11]: Single and uniform citizenhip is ensured throughout India. All those who were domiciled in India at the commencement of the Constitution and all those born in India or, either of whose parents were born in India, or, all those who were residing in India for at least five years preceding the commencement of he Constitution became citizens of India.

Special provision, however, had to be made for those who migrated from Pakistan and those of Indian origin who reside abroad.

Further the *Citizenship Act* 1955, provides for acquisiion of citizenship by birth, descent, registration and naturalisation.

FUNDAMENTAL RIGHTS : [ART. 12–35]: All citizens, individually and collectively, are guaranteed the following basic freedoms :

1. The right to equality meaning equality before he law; prohibition of discrimination on grounds of eligion, race, caste, sex or place of birth; equality of opportunity in matters of employment; and abolition of titles [ART. 14–18].

2. The right to freedom meaning freedom of speech and expression, freedom to assemble peaceably and without arms, freedom to form associations or unions, freedom to move freely throughout the territory of India, freedom to acquire, hold and dispose of property and freedom to practice any profession, or to carry on any occupation, rade or business [ART. 19].

These rights are not absolute and it is open to the State o make laws imposing reasonable restrictions on the exercise of the rights on the ground specified in ART. 9(2)–(6). The rights are enforceable by the courts and he reasonableness of the restriction imposed by the tate can be challenged in a Court of Law.

The right to freedom includes the protection of the ndividual in respect of conviction for offences, except under and in accordance with the law for the time being n force and that no person can be prosecuted and punished or the same offence twice and that no person can be compelled to be a witness against himself [ART. 20].

The right to freedom includes the protection of the life and personal liberty of the individual and also the protection that no person can be arrested and detained except under and in accordance with a law which conforms to the provisions of the Article of the Constitution [ART. 21–22].

3. The right against exploitation, prohibiting all forms of forced labour, child labour and traffic in human beings [ART. 23–24].

4. The right to freedom of conscience and free profession, practice and propagation of religion [ART. 25–28].

5. The right of minorities to conserve their culture, language and script and to establish educational institutions of their choice [ART. 29–30].

6. The right to property, subject to the State's right to compulsory acquisition for public use in the manner and for such compensation as is to be provided for or to be determined under the law under which the acquisition is to take place. ART. 31B provides for the validation of certain Acts and Regulations by incorporating them in a Schedule (known as 'the Ninth Schedule') whereby their invalidity on the grounds that they are violation of the Fundamental Rights is removed and the Acts of Regulations, if incorporated prior to a challenge to their validity, cannot be challenged in a court on the ground that they violate the Fundamental Rights. Recourse, in recent years, to this Schedule has been frequent to save legislation which was otherwise held invalid by the Courts (See below : Amendment to the Constitution). [ART. 31].

7. By the 42nd Constitutional Amendment laws giving effect to all the directive principles enumerated in part IV are saved from attack on the ground of infringement of fundamental rights contained in Art. 14, 19, and 31 [ART. 31C].

8. The right to constitutional remedies by moving the Supreme Court of India in appropriate proceedings for the enforcement of fundamental rights. [ART. 32].

DIRECTIVE PRINCIPLES OF STATE POLICY : [ART. 36–51] : In Part IV certain directive principles of State policy are laid down for the guidance of the legislatures as well as governmental authorities. They relate to (*a*) Principles of social policy, (*b*) Principles of administrative policy, (*c*) Socio-economic rights. The Directive Principles provide for the organisation of village panchayats, for just and humane conditions of work; for a living wage for all workers; for a uniform civil code; for free and compulsory education for children and for promoting the interests of the weaker sections of the people — the Scheduled Castes and Tribes; for raising the level of nutrition; for prohibition of consumption of alcohol; for organising agriculture; for protecting monuments and places of national importance.

The Directive Principles also provide that the State shall take steps to separate the judiciary from the executive in the public services of the State and also contain a statement of the international policy of the Republic.

FUNDAMENTAL DUTIES : [ART. 51A]: Part IVA has been added by the 42nd Constitutional Amendment specifying the fundamental duties of citizens, to uphold, abide, and protect the constitution, the National Flag and National Anthem, and the sovereignty, unity and integrity of India, to defend the country and render national service when called upon to promote common brotherhood, protect the cultural heritage and national environment, safeguard public property and abjure violence.

THE UNION : The Executive : ***The President :*** The executive head of the Indian Union is the President. He is elected by the elected members of the House of Parliament and the Legislative Assemblies of all the States, in accordance with the system of proportional representation. His term of office is five years, and he is eligible for re-election. Only a person who is a citizen of India and has completed the age of thirty-five years and is qualified for election as a member of the Lok Sabha is qualified to contest the election. The President cannot be a member of Parliament or hold any other office of profit. *Salary :* The President is entitled to the use of an official residence without payment of rent, and a salary of Rs. 10,000 per month and allowances. Provision has also been made by an Act of Parliament for a pension of Rs. 15,000 per annum. He is also entitled to a maximum of Rs. 12,000 per annum for the sake of secretarial staff and other expenses.

Presidential Powers : The President exercises the powers vested in him either directly or through officers of the government. The President acts on the advice of the council of ministers and he is bound by such advice. All executive action of the Government of India shall be expressed to be taken in the name of the President and extend to matters in respect of which Parliament has power to make Laws. The Supreme Command of Defence Forces vests in him. The President summons, prorogues, addresses, sends messages to Parliament and dissolves the House of the People (Lok Sabha) ; promulgates ordinances when Parliament is not in session ; makes recommendations for introducing financial and money bills ; and gives assent to bills, grants pardons, reprieves, respites and remissions of punishments or suspends, remits or commutes sentences in certain cases. The President's powers include the power of appointing the judges of the Supreme Court and the High Courts, the Attorney-General of India and the Comptroller and Auditor-General of India. The heads of States, *i.e.*, Governors, are also appointed by the President. The President has the power of appointing ambassadors abroad and receiving diplomatic representatives of foreign States.

The President, may, if satisfied that a grave emergency exists whereby the security of India is threatened by war, external aggression or internal disturbance, make a Proclamation of Emergency [ART. 352]. Similarly the President may, if he is satisfied that the financial stability of the country is threatened, make a declaration and in consequence thereof the executive authority of the union is considerably extended under the Constitution [ART. 360] (See below : EMERGENCY).

Council of Ministers and the Prime Minister: The Council of Ministers is headed by the Prime Minister to aid and advise the President in the exercise of his functions. The Prime Minister is appointed by the President who also appoints ministers on the advice of the Prime Minister. The Council holds office during the pleasure of the President and acts on the principles of joint responsibility. The Prime Minister has to communicate to him all decisions of the Council of Ministers and, if the President desires, submit for consideration of the Council of Ministers any proposal of a Minister not yet considered by the Council.

Impeachment : Provision is made for the impeachment of the President, by Parliament, for violation of the Constitution. The President may be impeached and removed from office by a resolution passed by two-thirds of the total membership of a house of Parliament after an investigation of a charge by it on a proposal made by one-fourth of the total membership adopted by a resoluti
passed by two-thirds of the total membership of the oth
house of Parliament.

Vice-President : There is a Vice-President of Ind
who is ex-officio Chairman of the Rajya Sabha (the Upp
House). The Vice-President acts as President during
casual vacancy in the office of the President. He is ele
by the members of both Houses of Parliament and
term of office is five years.

Election of President, Vice-President : Matt
pertaining to the election of the President and the Vi
President, and any doubts or disputes arising out of or
connection with such election are decided by an author
or body specified in a Law that, Parliament may ma
under the recent 29th Constitutional Amendment a
the Law nor the decision of the authority or body c
be challenged in a court of Law. [ART. 71] (This
abrogated by Parliament in June, 1977.)

THE PARLIAMENT : The Parliament consists of t
President and two Houses known as the Lok Sab
and the Rajya Sabha. It must meet at least twice a ye
The maximum strength of the two Houses is fixed at
(12 nominated) for the Rajya Sabha and 545 for the L
Sabha.

Elections : The Rajya Sabha is elected by the
members of the Legislative Assemblies of the States
of the Union Territories, while the Lok Sabha is
directly by the voters in the country.

The Rajya Sabha is a permanent body with
of its members retiring every second year. The Vice-Pr
dent is its ex-officio Chairman while a member is
as Vice-Chairman.

Ordinarily the Lok Sabha has a duration of six
except during an Emergency when Parliament can
the time by one year at a time while the Proclama
in force and a maximum of six months thereafter. [ART.
There is a Speaker and a Deputy Speaker of the House
of whom are elected by its members.

The Houses are summoned by the President
prorogue the Houses or either House or dissolve
Lok Sabha.

All these posts carry salary and allowances.

Immunity for M.P.s : Members of Parliament
assured of freedom of speech in Parliament sub
the provisions of the Constitution. They enjoy
from proceedings in any court in respect of
said or a vote given by him in Parliament. By the 4
Constitutional Amendment, Parliament has now unfetter
power to evolve the other privileges, powers and i
munities of each House. [ART. 105].

Under certain circumstances, the members can
qualified and their seats declared vacant but the
of such disqualification shall be decided by the Preside
in consultation with the Election Commission
make an inquiry, and such decision of the President
be final. [ART. 101–102].

LEGISLATIVE PROCEDURE : A Bill normally
through the following stages. It is first published.
introduction there is a general debate. Then, there
clause-by-clause discussion and voting thereon. A
important measure may go before a select
joint select committee. A Money bill has a slightly
passage. After it has been passed in the Lok Sabha
sent to the Rajya Sabha which has to return it
fourteen days with its recommendations which may

accepted or rejected. [ART. 107–110]. All Bills when passed by the Houses must receive the assent of the President and the President may give his assent or withhold assent and return the Bill for reconsideration by the Houses. If the Houses pass the Bill again, with or without the President's recommendations or amendments, then the President must assent to the Bill [ART. 111].

Union Budget: Every year the President shall cause to be laid before both Houses a statement of the estimated receipts and expenditures of the Government of India for that year. This "annual financial statement" is popularly known as the Budget [ART. 112].

Quorum: The quorum is fixed at one-tenth of the membership of the House but this may be regulated by rules framed by each House.

Language: The language used in Parliament is either Hindi or English. [ART. 120].

Distribution of Seats: (Please see chapter on Rajya Sabha and Lok Sabha).

Courts and Parliament: No discussion can take place in Parliament with respect to the conduct of a Judge of the Supreme Court or High Court in the discharge of his duties except on a motion for his removal [ART. 121]. The Courts are not to inquire into proceedings in Parliament [ART. 122].

Committees: Parliament's control over the administration is also exercised through a series of committees.

The committees can summon witness or require documents to be produced. There is a **Committee on Privileges** which sees to breaches of Parliamentary privilege, and a **Business Advisory Committee** which helps the Ministry of Parliamentary Affairs in drawing up the programme for a session.

Two very important Committees are the **Public Accounts Committee** and the **Estimates Committee.** They are elected by the House of the People and Ministers are barred from membership. The Public Accounts Committee ensures that money is spent for the purpose for which Parliament has voted it. The Estimates Committee examines possibilities of economy and reform in financial administration and the manner in which estimates may be presented to Parliament.

The Union Judiciary: (See next page: Administration of Justice.)

Comptroller and Auditor-General is appointed by the President to control, on behalf of the Union and the States, all disbursements and to audit all accounts of moneys administered by Parliament and State legislatures. [ART. 148–150].

THE STATES: The Executive: ***The Governor:*** The executive power of each State vests in a Governor, appointed by the President, and is exercised by him either directly or through officers subordinate to him. All executive business and action is taken in the name of the Governor. The powers of the Governor are similar to that of the President in respect of pardons etc. and to suspend etc. sentences. The Governor appoints the ***Chief Minister*** and the other Ministers of the Council of Ministers who aid and advise him in the discharge of the executive functions. The duties of the Chief Minister are similar to that of the Prime Minister. The Governor summons the Houses of the Legislature of the States, prorogues them and can dissolve the Legislative Assembly. The Governor can promulgate ordinances when the State Legislature is not in session. The Governor also has the power to give assent to bills passed by the State Legislature and the power to reserve certain bills for consideration by the President. The Governor also makes recommendations for introducing financial bills. The Governor appoints the Advocate-General of the State.

The 22 States have Governors as their heads, the Union Territories of Andaman & Nicobar Islands and Chandigarh have Chief Commissioners, Delhi, Goa, Mizoram and Pondicherry have Lieutenant-Governors, Lakshadweep, and Dadra & Nagar Haveli have Administrators.

The system of Government in the States closely resembles that of the Union.

The State Legislatures: Six States, Andhra Pradesh, Bihar, Karnataka, Maharashtra, Tamil Nadu and Uttar Pradesh have two Houses of Legislature; the others, only one. The two Houses are called the Legislative Assembly (sometimes Vidhan Sabha) and the Legislative Council (sometimes Vidhan Parishad). The former has a duration of six years except during a proclamation of emergency when its duration can be extended one year at a time, while the latter is a permanent body with one-third of the members retiring every second year.

Membership Strength: The minimum strength of an Assembly is 60 and the maximum 500. The minimum strength of a Council is 40, and the maximum one-third of the State Assembly. [ART. 170–171].

Elections: An Assembly is elected directly on the basis of adult franchise with reservation of seats for the Scheduled Castes and Tribes. The composition of a Council is more complicated. About a third are elected by the Assembly, another third by local authorities (municipalities, district boards) about a twelfth by registered teachers in schools not lower than the secondary school standard, and about a twelfth by registered graduates of not less than three years' standing. And the rest are nominated by the Governor from among persons who have distinguished themselves in art, science, literature, co-operation and social service. [ART. 171] Under certain circumstances a person may be disqualified from being a member [ART. 190–193].

Administrative Units: The principle unit of administration in a State is the district under a Collector and Magistrate. A Collector is responsible to a Commissioner who heads a Division or to the Board of Revenue depending upon the practice of a particular State. A District Magistrate is responsible for the maintenance of law and order and leads the district police force.

Language: The language by which the business of the State Legislatures is conducted is in the official language of the State or Hindi or English provided that in certain cases the Speaker may allow a member to address the House in his mother-tongue.

Legislative Procedure: The procedure followed is similar to that followed in the Union Parliament in respect of bills except Money Bills which procedure is contained in ART. 198 and 207. Annually a financial statement like the Union Budget is also introduced and passed by the House. [ART. 202]

Immunity of Members: Similar provisions as for the Parliament exist in respect of the State Legislatures and members exercising their rights.

THE UNION TERRITORIES: Special provisions relating to the administration of the Union Territories are provided under Part VIII of the Constitution and the provisions apply specifically to functions named in the Articles [ART. 239–241].

ADMINISTRATION OF JUSTICE

Supreme Court: [ART. 124–147] : The Supreme Court of India consists of a Chief Justice and not more than 17 judges appointed by the President.

Retirement : At the age of 65.

Qualifications : For appointment as a judge of the Supreme Court a person has to be a citizen of India and must have been for at least 5 years a judge of a High Court or of two or more such Courts in succession ; or an advocate of a High Court or two or more such Courts in succession for at least 10 years ; or, he must be in the opinion of the President an eminent jurist.

Removal : A judge of the Supreme Court cannot be removed from office except by an order of the President passed after an address by each House of Parliament, supported by a majority of the total membership of that House voting, has been presented to the President in the same session for such removal on the ground of proved misbehaviour or incapacity.

Present Strength (See end of Chapter.)

Original Jurisdiction : The Supreme Court has an exclusive original jurisdiction which extends to all disputes between the Union and one or more States or between two or more States *inter se* [ART. 131]. In addition to this and more significantly, Article 32 of the Constitution gives an extensive original jurisdiction to the Supreme Court to enforce fundamental rights guaranteed under Part III of the Constitution, by enabling it to issue writs, directions or orders including writs of *habeas corpus*, mandamus, prohibition, *quo warranto* and *certiorari*. The right guaranteed by ART. 32 cannot be suspended except as provided in the Constitution.

Advisory Jurisdiction : The President may consult the Supreme Court on any question of fact or law of public importance.

Appellate Jurisdiction : The Supreme Court can be invoked by a certificate of the High Court concerned or by special leave granted by the Supreme Court, in respect of any judgement, degree or final order of the High Court in cases involving substantial questions of law as to the interpretation of the Constitution. [ART. 132].

Civil Appeals : An appeal also lies from a judgement of a Division Bench of a High Court in a civil proceeding if the High Court certifies that the case involves a substantial question of general importance and which, in the opinion of the High Court, needs to be decided by the Supreme Court. [ART. 133]

Criminal Appeals : An appeal to the Supreme Court lies if the High Court (*a*) has on appeal reversed an order of acquittal of an accused person and sentenced him to death ; (*b*) has withdrawn for trial before itself any case from any court subordinate to its authority and has in such trial convicted the accused person and sentenced him to death ; or (*c*) certifies that the case is a fit one for appeal to the Supreme Court. Parliament is authorised to confer on the Supreme Court any further powers to hear and entertain appeals from any judgement, final order or sentence in a criminal proceeding of a High Court in Indian territory. [ART. 134]

Apart from these provision is also made for special leave to appeal to the Supreme Court from any judgement decree, sentence, determination or order from any cause of any matter passed by a Court or tribunal. But leave is at the discretion of the Supreme Court and is not one as of right. [ART. 136]

By the 42nd Constitutional Amendment where cases nvolving the same or substantially the same questions of law of general importance are pending before the Suprem Court and one or more High Courts the Attorney Genera can move the Supreme Court to withdraw the cases pending before the High Court or High Courts to itself an dispose of the same. Further the Supreme Court has bee empowered to transfer cases from one High Court t another High Court, if it is expedient for the ends of justic so to do. [ART. 139A]

High Court [ART. 214–231] : Every State has a Hig Court of its own except in the case of Assam and Nagaland and Punjab and Haryana who share one each between them. Delhi has a High Court of its own.

Appointment : High Court judges are appointed b the President after consulting the Chief Justice of Indi the Governor of the State and the Chief Justice of th High Court. They retire at the age of 62.

Qualifications : To be appointed a person has to be a citizen of the country who has either held judicial offi or practiced as an advocate for 10 years in any State or he must be, in the opinion of the President, an eminen jurist.

Removal : Article 124 (4), which lays down the procedure for the removal of a Supreme Court judge, applie to the High Court judges also.

Jurisdiction : The jurisdiction as well as the law administered by a High Court can be altered both by th Union and State Legislatures. Certain High Courts, lik those at Bombay, Calcutta and Madras, have Origina and Appellate jurisdictions. Under the Original jurisdictio suits, where the subject matter is valued at Rs. 25,00 or over, can be filed directly in the High Court. Unde the Appellate jurisdiction only appeals from lower court and Appeals from suits, filed on the Original side of th High Court, can be entertained. Most High Courts hav only Appellate jurisdiction. Two important aspects o this jurisdiction are that the High Courts are also empowered to issue writs, directions, orders like th Supreme Court for enforcing the Fundamental Right and in cases where the petitioner can satisfy the cour that he has no other remedy, and there is a contraventio of a statutory provision causing substantial injury to th petitioner or there is an illegality resulting in substantia failure (Art. 226 amended by the 42nd Constitutiona Amendment). The other aspect is the power of superintendence over all subordinate Courts except those infer courts whose judgement is not otherwise subject to appe or revision. [ART. 227]

Subordinate Courts [ART. 233–237] : Except for mi variations, the structure and functions of the subord courts are uniform throughout the country. A State divided into a number of districts, each under the jurisdiction of a principle civil court presided over by a Dist Judge. Subordinate to a District Judge is a hierarch of different grades of civil courts.

The constitution and organisation of criminal cour and their procedure are regulated by the Code of Crim Procedure 1898, as amended from time to time. In ever district there is a District Magistrate and under h a number of subordinate magistrates of various grad sitting at various places. These Magistrates try an dispose of cases involving a sentence not ex imprisonment for two years.

Sheriffs and Official Assigner : Are attached to th High Courts of Bombay, Calcutta and Madras.

There are Official Assignees in three States — Maharashtra, W. Bengal and Tamil Nadu. The appointment made by the Chief Justice of the High Court concerned.

In addition to the Official Assignee, a Deputy Official Assignee may also be appointed. Another officer of the court is the Insolvency Registrar who may be vested with the powers mentioned in section 6 of the Presidency Towns Insolvency Act.

Tribunals : Part XIVA has been added by the 42nd Amendment. Parliament may set up Administrative Tribunals for the Union and for each State or for two or more States and define the jurisdiction and powers of such tribunals for determining disputes relating to the recruitment and conditions of service of Union Government servants and servants of the States including the employees of any local or other authority within the territory of India or under the control of the Government of India or of a Corporation owned or controlled by Government. [ART. 323A]

Art. 323B provides for the creation of a hierarchy of Tribunals for the determination of disputes, complaints and offences respectively on various matters specified therein.

RELATIONS BETWEEN THE UNION & THE STATES

Legislative Relations : Under the Constitution, Parliament has the power to make Laws for the whole of or any part of the territory of India and the State Legislatures have the power to make Laws for the State. The subjects on which Legislation can be made are specified in the Seventh Schedule and Parliament has the exclusive right to legislate in respect of items appearing in List I (called the "Union List") and the State Legislatures have the exclusive power to make Laws in relation to items appearing in List II (called the "State List"). Both Parliament and the State Legislatures have the power to legislate in respect of items appearing in List III (called the "Concurrent List"). Provision is made in the constitution in relation to any inconsistency of laws made by the State Legislatures and Laws made by Parliament, as to which will prevail and for how long if both legislate in respect of the same subject. Parliament is also given the power to legislate on items exclusively reserved in the State List during an Emergency [ART. 245–254].

The Union List has 97 items including defence, armed forces, atomic energy, preventive detention, foreign affairs, citizenship, railways, highways, shipping, posts & telegraphs, currency, foreign exchange, incorporation, income tax, excise duty, estate duty etc. The State list has 66 items including public order, police, public health, communications, agriculture, forests, fisheries, markets, money lending, betting and gambling, taxes on lands and buildings, taxes on electricity, octroi, taxes on luxuries, entertainment etc. The concurrent list has 47 items including criminal law, marriage and divorce, transfer of property, contracts, trusts and trustees, contempt of court, prevention of cruelty to animals, trade unions, charities, newspapers, stamp duties, fees, evacuee property, price control etc.

Administrative Relations : The executive power of the State is exercised in compliance with laws made by Parliament and must not impede or prejudice the executive power of the Union. The other aspects of the general relationship are contained in ART. 256–263.

By the 42nd Constitutional Amendment the Union has been empowered to send any armed force or other force of the Union for dealing with any grave situation of law and order in any State. Such force shall act in accordance with the directions of the Union Government and shall not be subject to the control of the State Government. Parliament is also empowered to define by law the powers, functions and the liabilities etc., of the members of such force, when deployed in a State, during the period of deployment. [ART. 257A]

FINANCE, PROPERTY, CONTRACTS & SUITS [ART. 264–300]: Under the Constitution no tax can be levied or collected except by authority of law [ART. 265]. All revenues of the Union and all Laws in whatever form raised by it, are made part of the "Consolidated Fund of India" and all revenues of the State and Laws raised by it shall form part of the "Consolidated Fund of the State." Parliament is also empowered by law to establish a "Contingency Fund" [ART. 266–267]. Under the Constitution provision is made for duties levied by the Union but which are collected and appropriated by the States such as stamp duties and excise duties on medicinal and toilet preparations and also taxes collected by the Union but assigned to the States such as taxes on succession, estate duty, taxes on railway fares and freights etc. and also income tax, which is collected by the Union, but, distributed, in accordance with the constitution between the States and the Union [ART. 268–270]. Similarly, provision relate to excise duties collected by the Union but distributed between the States and the Union if a law so provides for their distribution. Provision is also made for grants by the Union to certain States and for the setting up of a Finance Commission.

Under the Constitution the property of the Union is exempt from taxes by the State and vice-versa [ART. 285 and ART. 289]. States are restricted from imposing taxes on sales or purchases of goods which are sales or purchases outside the State or in the course of import or export from the territory of India. [ART. 286]

Under the Constitution the executive power of the Union and that of the State Government extends to borrowing on the security of the respective Consolidated Funds to the extent permitted by Parliament and the State Legislatures. [ART. 292–293]

From the commencement of the Constitution all property and assets which vested in His Majesty for the purposes of the Government of the Dominion of India and all property and assets which vested in His Majesty for the purposes of the Government of the Governor's Province vested in the Union and in the States respectively. Similarly all rights, liabilities and obligations were continued as the rights, liabilities and obligations of the Government of India and the Government of the State respectively. [ART. 294–295]

All lands, minerals, etc. underlying the ocean within the territorial waters or the continental shelf of India vest in the Union and are held for the purposes of the Union. [ART. 297]

All contracts, made in the exercise of the executive power of the Union or a State are made in the name of the President or a Governor respectively though no personal liability attaches in respect thereof on the President or the Governor. [ART. 299]

The Government of India may sue or be sued by the name of the Union of India or the Government of the State may sue or be sued by the name of the State. [ART. 300]

TRADE, COMMERCE & INTERCOURSE : [ART. 301–307]: Trade, Commerce and intercourse throughout the territory of India is free and this applies to both inter-state and intra-state trade, commerce and intercourse. Parliament and the legislatures of the State are empowered, however, to impose such restrictions as may be required in the public interest. (In the case of the States the restrictions must also be reasonable and no

Bill making such restrictions could be introduced in the Legislature without the previous sanction of the President.)

SERVICES UNDER THE UNION & THE STATES : [ART. 308–323]: Persons who are members of the civil service of the Union or the civil service of a State or are holders of civil posts cannot be removed or dismissed by an authority subordinate to that by which they were appointed. Further no person can be dismissed or removed or reduced in rank except after an inquiry in which the person is informed of the charges and given a reasonable opportunity of being heard in respect of the charges. [ART. 311]

Administrative Tribunals may be set up for determination of disputes and complaints relating to the recruitment and conditions of service of persons in service of the Union or a State (see above *Administration of Justice*).

Public Service : There is a Public Service Commission for the Union and for each of the States. The Commission must be consulted in all matters relating to methods of recruitment, on the principles in making appointments, promotions and transfers, on all disciplinary matters and on any claims or awards. These functions can be extended by law. The Commissions are required to present annually to the President or the Governor of the State a report of the work done by the Commission.

ELECTIONS : [ART. 324–329] All elections are directed and controlled by an Election Commission whose head is the Chief Election Commissioner appointed by the President. All elections to the Lok Sabha and to the Legislative Assemblies of the States are on the basis of adult suffrage. Seats are reserved in the Lok Sabha and the Legislative Assemblies of the States for the Scheduled Castes and Tribes and provision may be made for seats to be reserved for the Anglo-Indian community. These special provisions are to have effect for thirty years from the commencement of the Constitution. [ART. 330–334]

Interference by Courts in Election Matters: The Courts are banned from questioning elections to Parliament or the State Legislatures except by Law made by the appropriate Legislature. By an amendment the elections of the President, the Vice-President, the Prime Minister and the Speaker of the Lok Sabha have been made non-justiciable in a Court of Law and can be called in question only before an authority to be appointed by a Law to be made by Parliament and all decisions of that authority cannot also be questioned in a Court of Law. (39th Constitution Amendment.) [ART. 329A]

OFFICIAL LANGUAGE : [ART. 343–351]: The official language of India is Hindi in the Devnagri script and the form of numerals for official purposes shall be the international form of Roman numerals. English, which was originally to continue as the official language till 26th January, 1965, has been, under the Official Languages Act, 1963, continued in addition to Hindi.

The language to be used in the Supreme Court and in the High Courts and for Acts, Bills etc. is English.

EMERGENCY : [ART. 352–360]: If the President is satisfied that a grave emergency exists whereby the security of India or any part of the territory thereof is threatened by war, or external aggression, or internal disturbance he may by proclamation make a declaration to that effect. By the 42nd Constitutional Amendment the President is now enabled to make a proclamation of Emergency not only in respect of the whole of India but also in respect of a part of the Country or, as the ca may be, to restrict the proclamation of Emergency ma in respect of the whole of India to a part of A proclamation may be revoked or banned by a proclamation. The declaration shall operate only period of two months unless before that it has b approved by resolution of both Houses of The President may also make such declaration any actual threat and if he is satisfied that there is inent danger thereof. The President is empowered to more than one Declarations of Emergency on grounds and the declarations can operate simul The satisfaction of the President is final and conclusive it cannot be questioned in a Court of Law nor validity or its continued operation be questioned in a of Law [ART.352].

Effect of Proclamation of Emergency : W Proclamation of Emergency is in operation, (1) the exe tive power of the Union is extended to giving directi to a State or where the proclamation of Emergency i force only in a part of the Country, to any other other than the State in which Emergency is in force, security of the Country or any part thereof is threat by activities in or in relation to the part of the C in which the Emergency is in force ; as to the which its executive power is to be exercised and make laws with respect to any matter including con powers and imposing duties upon the Union or and authorities ; (2) Similarly Parliament is empow to legislate in respect of items contained in the Stat L of Schedule Seven of the Constitution; (3) the may make modifications and exceptions as far as distribution of revenues under the Constitution a concerned (see above : Finance, Property, Contra Suits ART. 268–279); (4) the Fundamental Rights un ART. 19 shall be suspended and it will be compete the State to make Laws and to take executive action wh the State would have otherwise been incompetent make or take because of ART. 19 (the Law, to the ext of the incompetency ceasing to have effect after Proclamation ceases to operate); (5) empower the Pre dent by order to declare that the right to move a C for the enforcement of such of the Fundamental R as may be specified in that order as well as all pend proceedings for the enforcement of the rights shall rem suspended for the time the Proclamation operates or such shorter time as may be specified in the Order a (6) by the 38th Constitution Amendment empow State to make Laws or to take executive action which t State would have been otherwise incompetent to m or take because of such of the Fundamental Rights wh are suspended by the order (the law ceasing to ha effect to the extent of its incompetency on the mation ceasing to operate). [ART. 353, ART. 250, A 354, ART. 358, ART. 359].

Proclamations of Emergency & Presidential Order
On 26th Oct., 1962 the President made the first mation of Emergency under ART. 352 on the ground the security of India was threatened by the Chinese sion. On 3rd Nov., 1962 a Presidential order was under ART. 359 suspending the rights conferred 21 and 22. On 11th Nov., 1962 ART. 14 was Presidential order. The Proclamation of Emergency revoked on 10th Jan. 1968.

On 3rd Dec., 1971 the President made a second mation of Emergency under ART. 352 on the the security of India was threatened by the war Pakistan in Dec. 1971. This has since been

On 25th June, 1975 the President made a third Proclamation of Emergency under ART. 352 on the ground that the security of India is threatened by internal disturbances. On 27th June, 1975 a Presidential Order was made under ART. 359 suspending the rights conferred by ART. 14, 21 and 22 and on 8th Jan., 1976, ART. 19 was added to the order. This order has also been revoked.

Financial Emergency : [ART. 360] : If the President is satisfied that the financial stability of the country is threatened, he may, by a Proclamation, make a declaration and in consequence the executive authority of the Union is considerably extended and it is empowered to suitable action.

President's Rule : The President may, on receipt of a report from the Governor of a State or otherwise, if satisfied that a situation has arisen in which the government of the State cannot be carried on in accordance with the Constitution, by proclamation assume to himself all or any of the functions of the Government of the State and all or any of the powers vested in the Governor, declare that the powers of the Legislature of the State are exercisable by Parliament except that the President cannot assume the powers vested in the High Court. This Proclamation is popularly known as 'President's Rule' and all such Proclamations have to be laid before Parliament within two months and approval obtained to continue the Proclamation. Such a proclamation approved by the Parliament ceases to be in operation after a period of one year unless revoked earlier and may be renewed for a period of one year at a time but in no case beyond a total period of three years. The satisfaction of the President is final and conclusive and justifiable. Consequential provisions regarding Parliament's authority to legislate on such a declaration are provided under the Constitution. [ART. 356–7].

AMENDMENT OF THE CONSTITUTION : [ART. 368] The extent of the power to amend the Constitution and whether all parts of the Constitution were amendable was the subject of several decisions of the Supreme Court. In the last decision, popularly known as the "Fundamental Rights Case" the Supreme Court has held that the power to amend applies to even the Fundamental Rights (which it had previously held to be not amendable) but that Parliament could not amend the "basic features" of the Constitution. ART. 368 was itself amended by the 24th Constitution Amendment which was challenged in the Fundamental Rights case and that amendment was upheld by the Supreme Court. The new ART. 368 contains the procedure for amendment. The amendment can be done only by the introduction of a Bill for that purpose in either the Lok Sabha or the Rajya Sabha and the Bill has to be passed by each House by a majority of the total membership of that House and by a majority of not less than two-thirds of the members of that House voting and after the President has assented to it the Constitution will stand amended. Certain provisions of the Constitution like the provisions relating to the Union Judiciary, the High Courts, the distribution of Legislative Powers or ART. 54, 55, 73, 162 and 241 or of any of the lists contained in the Seventh Schedule in the representation of the States in Parliament and an amendment to any of the provisions of this Article have in addition to the above to be ratified by the legislatures of at least half the States by resolutions to that effect before the Bill can be presented to the President for his assent.

The 42nd Constitutional Amendment has amended Art. 368 to provide that no amendment of the Constitution made before or after the 42nd Amendment shall be questioned in any court on any ground, and further, that Parliament's power to amend the Constitution under Art. 368 shall be without any limitation.

Section 59 of the Constitution (Forty-second Amendment) Act, 1976 has conferred power on the President to remove by an order, any difficulty that may arise during the period of transition from the old provisions of the Constitution to the new provisions as amended.

Amendments made to the Constitution: Till 1977, 43 amendments had been made to the provisions of the Constitution. In some of the recent amendments many Acts of Parliament and the State Legislatures have also been inserted in the Ninth Schedule (See above Fundamental Rights) to protect them from challenge in a Court of Law on the grounds that they violate the Fundamental Rights.

JUSTICE — PRESENT POSITION

Supreme Court: The institution of cases increased from 3,294 in 1960 to 8,254 in 1976. The corresponding figures for number of cases pending is 2,319 in 1960 and 14,109 in 1976.

High Courts: The position of institution, disposal and pendency of cases in High Courts from 1973 to 30th June, 1977 was as follows :

Year	Institution	Disposal	Pendency at the end of the year
1973	377,574	340,531	439,525
1974	412,610	386,669	465,466
1975	440,520	396,920	510,411
1976	467,154	413,588	564,007
1977 (Jan.-June)	207,007	183,942	580,695

Sessions Courts : The position of institution and disposal of criminal cases during the period 1st July, 1975 to 30th June, 1977 and the state of pendency as on 1st July, 1975, 1st January, 1976, 31st December, 1976 and 30th June, 1977, in sessions courts was as follows :

Period	Institution			Disposal		
	Original	Revision	Appeals	Original	Revision	Appeals
July–Dec. 1975	31,817	21,259	32,899	25,589	16,994	31,297
Jan.–Dec. 1976	62,920	37,401	70,853	53,955	35,553	64,436
Jan.–June 1977	36,791	16,343	34,750	34,899	17,272	34,960

PENDENCY

Pending as on	Original	Revision	Appeals
1st July 1975 ..	51,037	18,187	33,021
1st Jan. 1976 ..	57,196	19,835	36,186
31st Dec. 1976 ..	64,548	19,239	42,098
30th June 1977 ..	66,716	18,035	41,620

Magisterial Courts: The position of institution and disposal of criminal cases during the period 1st July, 1975 to 30th June, 1977, and the position of cases pending as on 1st July, 1975, 1st January, 1976, 31st December, 1976 and 30th June, 1977 was as follows :

Period	Institution	Disposal
July–December 1975 ..	3,940,182	3,545,847
January–December 1976	8,597,066	8,134,419
January–June 1977 ..	3,716,439	3,786,362

PENDENCY

Pending as on	No. of cases
1st July 1975	3,082,135
1st January 1976	4,003,188
31st December 1976	4,472,145
30th June 1977	4,348,858

Civil Courts: The position of institution and disposal of civil cases in courts at district level during the period 1st January, 1976 to 30th June, 1977 and the state of pendency on 1st January, 1976, 31st December, 1976, and 30th June, 1977 was as follows :

	Institution		Disposal	
	Original side	Appellate side	Original side	Appel side
Jan.–Dec. 1976	2,216,339	272,063	2,149,785	[illegible]
January–June 1977 ..	1,032,660	97,853	1,000,483	98,5

PENDENCY

Pending as on	Original side	Appellate si
1st January 1976 ..	1,967,654	182,491
31st December 1976	2,036,046	192,319
30th June 1977 ..	2,069,872	191,826

NUMBER OF COURTS JUDGES

Supreme Court: The sanctioned strength has b 13 judges plus the Chief Justice. In view of the n of pending cases and the increase in the number of ins tions Parliament passed a Bill which received President's assent on 31st December, 1977, to incr the number of judges to 17 plus the Chief Justice.

High Courts: Sanctioned strength of judges (includ Additional Judges) at the beginning of 1977 was 3 On 1st April, 1977, there were as many as 64 unfilled p in various High Courts. Upto March 1978 the Governm had appointed 52 new persons to the various High Cour

Civil Courts: The number of courts functioning the country at district level as on 31st March, 19 was 1,928 District/Additional District/Sessions Judg Assistant Sessions Judges/Subordinate Judges and 4,1 Munsifs/Magistrates.

Source : (Report of Ministry of Law 1977–78).

PHYSIOGRAPHY

THE vast size of India needs no stressing. Reaching from 8° 4′ to 37° 6′ North latitude, and from 68° 7′ to 97° 25′ East longitude, it measures some 3,220 kms. from south to north and some 2,980 kms. from west to east, and covers an area of 3,276,141 sq. kms. (including Sikkim).

Physical Features : India is built on a grand scale. Its physical features fall into three well-marked regions, each of them vast in dimensions : first, the great Himalayan mountain system ; secondly, the Indo-Gangetic plain ; and thirdly the plateaux of peninsular India, the Deccan.

The Himalayan system lies between the plateau of Tibet and the Indo-Gangetic Plain, and consists essentially of a complex series of young fold-mountains arranged in more or less parallel ranges which now combine in a mountain-knot, then divide to leave room for intermont valleys like those of Kashmir and Kulu. The highest range, the Great Himalaya, consists of a whole series of giant peaks like Nanda Devi (24,645 feet), separated by deep chasms cut by rivers and glaciers and, occasionally, by high passes over which run the immemorial trade-routes between India and Tibet. South of the Great Himalaya lie other high ranges, and nearest to the plains there are the Sivaliks, the youngest member of the series geologically, which present a massive rampart to the south, broken only by valleys through which run great snow-fed rivers like the Sutlej (a tributary of the Indus), the Yamuna and Kosi (tributaries of the Ganga) and the Ganga itself. At the eastern-most end of the Indian Himalaya the ranges are breached in a spectacular gorge the Brahmaputra, which rises in Tibet. East and sou of the Brahmaputra gorge, the fold-ranges trend genera southward, and form the wild hilly country of Nagala and other areas on the frontiers of India and Burma.

The Indo-Gangetic Plain occupies what must on have been a hollow between the Himalayas and the o rock plateaux of the peninsula ; a hollow that has b infilled by alluvium brought down by the great Himalay rivers and, to a lesser extent, by those flowing into from the Deccan, like the Chambal and Sone. If one includ the level ground along the Brahmaputra in Assam, t Plain as a whole is over 2,400 kms. long, and genera 200-300 kms. wide (rather narrow in Assam). Here is o of the world's really large Plains. To the casual observ it is one great monotony, but actually it has considerab variety, of two kinds : first, the gradual transition fr the dune-covered desert-plain of Rajasthan, throug the rich, cultivated alluvium of Uttar Pradesh to t swampy Sundarbans along the seaward edge of the Beng delta ; and, secondly, more intimate local variety — f example, the contrast of deeply-gullied terraces of o alluvium and of low-lying flood-plain where the Chamb runs into the Yamuna below Agra.

The dominant landform in the Deccan (that is, in penin sular India) is the plateau, the great stretch of [illegible] country at some considerable elevation above sea leve level, in the Maidan of Karnataka or the black earth platea of Malwa (or the detached plateau which forms Meghalaya

Most of these plateaux, indeed, almost all of the Deccan, are built of hard old crystalline rock, with here and there ancient sediments. Here lies most of India's mineral wealth, especially iron and manganese ore (with coal in down-faulted basins in the north-east Deccan). In Maharashtra there was a great outpouring of basalt which overlies the crystalline base and gives rise to characteristic stepped landforms. Across the plateaux roll the great east-flowing Deccan rivers, the Mahanadi, Godavari, Krishna and Kaveri, with their tributaries. Each forms a notable delta where it reaches the sea. The Narmada and Tapti, on the other hand, flow westward to the Gulf of Cambay north of Bombay. The great plateaux end in massive mural scarps like those overlooking the Indo-Gangetic Plains or the even more impressive Western Ghats (the so-called Eastern Ghats are puny, broken things in comparison). There are also scarps with the appearance of mountain ranges where one plateau-level descends to another within the Deccan.

Climate : The vastness of India and the variety of its relief are reflected in the wide range of climatic types to be found within it. In the Plains, the desert of Rajasthan contrasts with the humidity of Bengal. The winter snows of the Himalaya contrast with the nearly equatorial heat of Kerala and Tamil Nadu. The last two contrast with each other, for Kerala is wet, with a short dry season, and Tamil Nadu is dry, with a long dry season when much of India is having rain, during the south-west monsoon.

If one seeks a unifying factor in the climate of India, it is to be found in the dominance of the monsoon : that is, in a great seasonal reversal of wind and weather. For most of India except Tamil Nadu, the south-west monsoon of about June to September is a period of rain, very heavy in Bombay and Calcutta, torrentially heavy in Meghalaya (where Cherrapunji has the reputation of being the earth's wettest spot), light by the time Delhi is reached, even lighter (and highly variable) in the desert. The north-east monsoon of 'winter' is a period of dry weather over most of India except Tamil Nadu, which then has its rainy season ; and of cold weather, becoming hot as the south-west monsoon season approaches, in north India.

Vegetation and Soils : Most of India must once, it is thought, have been covered with forest whose nature reflected principally variations in rainfall (or of altitude in the Himalaya) : forest that ranged from tropical rain forest in Kerala through tropical moist deciduous forest in the eastern Plains and north-east Deccan to thorn scrub in semi-arid interior Maharashtra. Forest reserves to some extent preserve this pristine vegetation, though usually in a form modified by man, acting as a destructive agent (for instance, turning thorn forest to poor savana-jungle) or as a constructive agent (replacing 'natural' vegetation with pure strands of desired species like sal or sandal-wood). In the Plains, the east coast deltas and western coastal strips, in Tamil Nadu and much of Maharashtra, little 'natural' vegetation of any sort survives.

Human activity over the centuries (indeed, for millennia) has replaced 'natural' vegetation with crops : the kharif rice and rabi wheat of much of the Plains (and, of course, other crops beside, like sugar-cane and mustard) ; the jowar and bajra of the drier parts of the Deccan, except where irrigation has brought in wheat, or rice, or sugar-cane ; the tea of Assam ; the tea and coffee of Kerala and of the hills north of it ; the coconut of the coastal fringes of the South. So, too, the teeming wild life of India, dependent as it is on forest cover, has been fighting a losing battle against man. There is now concern over the survival of a number of species, notably the lion (confined to the Gir forest in Saurashtra), the tiger, the elephant and the rhinoceros. But a number of species of deer are still relatively common, and bird life is generally abundant.

Population (also see Chapter on Population) : India is the world's second most populous country. The 1971 Census indicated the total population was 547,949,809, an increase of 24·57 per cent since the 1961 Census. It is not surprising that, although there are great variations between one region and another, pressure of population on the land has become excessive, especially in the Plains, the east coast deltas and Tamil Nadu.

STATES, TERRITORIES : The country is divided into 22 States and 9 Union Territories. These are (with the capital towns in brackets) :

Andhra Pradesh (Hyderabad), Assam (Shillong), Bihar (Patna), Gujarat (Gandhinagar), Haryana (Chandigarh‡), Himachal Pradesh (Simla), Jammu and Kashmir (Srinagar), Kerala (Trivandrum), Madhya Pradesh (Bhopal), Maharashtra (Bombay), Manipur (Imphal), Meghalaya (Shillong), Karnataka (Bangalore), Nagaland (Kohima), Orissa (Bhubaneshwar), Punjab (Chandigarh‡), Rajasthan (Jaipur), Sikkim (Gangtok), Tamil Nadu (Madras), Tripura (Agartala), Uttar Pradesh (Lucknow), West Bengal (Calcutta).

The Andaman and Nicobar Islands (Port Blair), Arunachal Pradesh (Yachuli), Chandigarh‡ (Chandigarh), Dadra and Nagar Haveli (Silvasa), Delhi (Delhi), Goa, Diu and Daman (Panaji), Lakshadweep (Kavaratty Island), Mizoram (Aizawl), Pondicherry (Pondicherry).

SOME BASIC FACTS: Date of Independence 15-8-1947. Became a Republic on 26-1-1950.

Area : 3,276,141 sq. kms.
Length : 3,119 kms. (North-South).
Breadth : 2,977 kms. (East-West).

Land Frontier : 15,168 kms. ; Frontiers with Pakistan : 2,966 kms. ; with Bangla Desh : 3,950 kms. ; with China 3,862 kms. ; with Nepal : 4,390 kms.

Coastline : 5,686 kms.
Ocean Zone : 200 nautical miles.

Important Rivers : Ganges, Yamuna, Luni, Ghaghara, Kosi, Godavari, Chambal, Betwa, Sone, Brahmaputra, Krishna, Mahanadi, Narmada, Kaveri, Tapti and Pennar.

Minimum Rainfall : Thar Desert 101·60 mm (4 inches).
Maximum Rainfall : Cherrapunji 10,795 mm (425 inches).
Minimum Temperature : Kashmir 9·4°C (49°F).
Maximum Temperature : Rajasthan 48·9°C (120°F).
Population : 630 million (1978 est.).
Growth Rate : 24·57 per cent (1971).

Expectancy of Life at Birth : 52·6 years (M. 53·2 years; F. 51·9 years).

Death Rate : 14 per 1,000.
Infant Mortality Rate : Male 120, Female 113.
Most Populated State : Uttar Pradesh 88,341,144.
Largest Populated City : Greater Calcutta 7,005,262.
Literacy Rate : 33 per cent.
Most Literate State : Kerala (46·8 per cent).

Largest State : Madhya Pradesh 443,459 sq. kms. (171,221 sq. miles).

No. of States : 22.
No. of Districts : 358.
No. of Villages : 596,000 (approximately).
No. of Village Panchayats: 221,727.

Languages : 15 (provided by the Constitution). Assamese, Bengali, Gujarati, Hindi, Kannada, Kashmiri, Malayalam, Marathi, Oriya, Punjabi, Sanskrit, Sindhi, Tamil, Telugu, Urdu.

Dialects Spoken : 1,652.

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‡ The Union Government announced on January 29, 1970 its decision to transfer the capital project area of Chandigarh to Punjab within the next five years. Pending the construction of a new capital for Haryana, Chandigarh will remain a Union Territory.

METEOROLOGY

AVERAGE MONTHLY TEMPERATURE °C FOR DIFFERENT STATIONS

Name of Station	Altitude in Metres	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.
Agra	169	14·8	18·0	23·8	29·7	34·5	35·0	30·9	29·3	28·9	26·2	20·6
Ahmedabad ..	55	20·3	22·7	27·1	31·3	33·5	32·7	29·5	28·2	28·7	28·4	24·5
Allahabad ..	98	16·4	19·1	25·1	30·7	34·7	34·3	30·1	29·1	29·0	26·5	21·1
Bangalore ..	921	20·9	23·1	25·7	27·3	26·9	24·3	23·2	23·3	23·3	23·2	21·7
Bombay	11	24·3	24·9	26·9	28·7	30·1	29·1	27·5	27·1	27·4	28·3	27·5
Calcutta	6	20·2	23·0	27·9	30·7	31·1	30·4	29·1	29·1	29·2	27·9	23·9
Cherrapunji ..	1,313	11·7	13·7	16·7	18·5	19·2	20·1	20·3	20·5	20·5	19·1	15·8
Darjeeling.. ..	2,127	6·1	7·7	11·3	14·4	15·7	17·0	17·6	17·6	17·3	15·1	11·3
Dehra Dun ..	682	12·6	14·8	19·4	24·5	28·9	29·5	26·7	26·1	25·5	22·1	17·5
Gauhati	54	17·5	19·5	23·3	25·9	26·9	28·1	28·9	29·0	28·7	26·3	22·3
Hyderabad ..	545	21·6	23·9	27·4	30·3	32·5	29·1	26·1	25·8	25·7	25·1	22·3
Indore	567	17·9	19·9	24·5	29·1	32·3	30·1	26·1	25·1	25·1	24·1	20·5
Jaipur	390	15·1	18·1	23·2	28·7	33·2	33·3	29·9	28·1	28·1	25·7	20·5
Jammu	366	13·3	15·9	20·6	26·8	32·4	34·1	30·7	29·1	28·6	25·4	19·8
Jamshedpur ..	129	19·3	21·7	26·7	31·2	33·4	31·7	28·9	28·7	28·7	26·9	22·3
Kangra						Not available						
Kodaikanal ..	2,343	12·5	13·3	14·6	15·7	16·5	15·3	14·3	14·5	14·5	13·9	12·9
Lucknow	111	16·1	18·9	24·6	30·1	33·9	33·7	30·1	29·3	29·1	26·3	21·0
Madras	16	24·5	25·9	27·9	30·5	32·7	32·5	30·7	30·1	29·7	28·1	25·9
Mahableshwar ..	1,382	18·9	20·5	23·1	24·1	23·5	19·4	17·9	17·6	18·0	20·1	19·5
Matheran						Not available						
Mussoorie ..	2,042	6·3	7·8	11·7	16·5	19·9	20·3	18·3	17·9	17·1	14·9	11·6
Mysore	767	22·3	24·7	26·9	27·7	26·9	24·5	23·5	23·7	24·0	24·0	22·9
New Delhi ..	216	14·3	16·9	22·7	28·6	33·5	34·3	31·3	29·9	29·3	25·9	20·3
Ootacamund ..	2,249	12·5	13·5	15·1	16·1	16·5	14·5	13·7	14·1	14·3	14·3	13·6
Panaji	57	25·5	25·9	27·5	29·0	29·8	27·5	26·4	26·5	26·5	27·5	27·6
Patna	53	17·3	19·9	25·7	30·5	32·5	31·9	29·8	29·3	29·3	27·5	22·5
Pune	559	21·3	23·1	26·5	29·3	29·9	27·5	24·9	24·6	25·0	25·5	22·9
Ranikhet						Not available						
Shillong	1,500	9·5	11·7	16·0	18·9	19·6	20·5	21·1	20·9	20·1	17·3	13·3
Simla	2,202	5·2	6·7	10·6	15·2	19·2	20·3	18·3	17·7	16·9	14·3	11·1
Srinagar	1,586	1·1	3·5	8·5	13·3	17·9	21·7	24·6	23·9	20·5	14·1	7·7
Trivandrum ..	64	26·8	27·3	28·3	28·7	28·3	26·5	26·1	26·3	26·6	26·7	26·6
Udaipur	582	16·0	18·7	23·7	28·1	31·7	30·6	27·3	26·1	26·5	25·5	20·1
Vadodara	34	20·5	22·5	26·6	30·8	33·4	32·1	28·9	28·1	28·3	27·5	23·9
Varanasi	76	16·5	19·3	25·3	30·5	34·3	33·7	30·0	29·1	29·1	26·6	21·0

AVERAGE MONTHLY RAINFALL (MILLIMETRES) FOR DIFFERENT STATIONS

Name of Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Agra	16·2	8·8	10·9	5·3	10·0	60·0	210·2	263·2	151·5	23·5	2·1	3·7
Ahmedabad	3·9	0·3	0·9	1·9	4·5	100·0	316·3	213·3	162·8	13·1	5·4	0·7
Allahabad	20·2	22·2	14·3	4·8	8·2	101·7	274·8	333·1	195·1	39·7	6·9	6·3
Bangalore	3·3	10·2	6·1	45·7	116·5	80·1	116·6	147·1	142·7	184·9	54·3	16·2
Bombay	2·0	1·1	0·4	2·8	16·0	520·3	709·5	439·3	297·0	88·0	20·6	2·2
Calcutta	13·8	24·2	26·5	42·7	120·6	259·1	300·6	306·3	289·7	160·2	34·9	3·2
Cherrapunji	19·8	37·3	178·9	605·2	1,705·1	2,921·5	2,456·7	1,827·5	1,167·7	447·4	46·7	4·9
Darjeeling	21·7	26·7	52·4	109·0	187·1	522·3	712·9	572·5	418·5	116·1	14·2	5·0
Dehra Dun	62·2	59·4	39·7	17·4	41·7	185·9	720·8	764·9	326·7	70·8	5·1	19·1
Gauhati	11·4	18·3	53·4	125·9	273·6	293·4	301·5	263·0	190·1	90·1	11·5	5·0
Hyderabad	1·7	11·4	13·4	24·1	30·0	107·4	165·0	146·9	163·3	70·8	24·9	5·5
Indore	8·4	1·1	3·5	3·5	13·2	147·1	316·0	266·5	220·9	48·4	22·1	2·7
Jaipur	14·0	8·4	8·6	4·2	10·0	54·0	193·2	239·0	89·8	19·3	3·4	4·2
Jammu	71·3	59·4	57·0	25·2	17·0	60·9	320·7	319·1	150·8	29·5	7·9	29·5
Jamshedpur	14·1	28·3	23·8	25·4	68·8	217·5	347·2	356·1	215·4	76·2	16·7	1·8
Kangra	78·5	73·1	70·6	36·6	39·9	108·2	578·4	692·7	218·4	19·1	8·1	37·1
Kodaikanal	62·7	31·6	64·3	166·1	157·4	103·8	117·4	162·8	160·5	250·3	274·0	121·2
Lucknow	23·7	17·2	9·2	6·4	11·7	93·9	299·0	301·8	181·7	40·3	1·4	6·1
Madras	23·8	6·8	15·1	24·7	51·7	52·6	83·5	124·3	118·0	267·0	308·7	139·1
Mahableshwar	3·1	1·8	6·8	29·6	55·4	898·3	2,521·3	1,714·7	709·2	179·3	56·7	6·1
Matheran	2·0	1·5	2·3	4·1	25·1	773·9	2,035·6	1,461·0	658·6	168·1	31·5	3·8
Mussoorie	66·4	66·9	63·5	29·5	45·1	188·5	726·5	754·7	323·2	64·8	7·7	31·3
Mysore	2·8	5·5	12·0	67·6	156·9	60·5	71·9	80·1	116·3	179·9	66·6	14·7
New Delhi	24·9	21·8	16·5	6·8	7·9	65·0	211·1	172·9	149·7	31·2	1·2	5·2
Ootacamund	25·8	12·0	29·5	108·5	172·6	139·2	176·6	128·2	109·7	213·3	126·5	59·1
Panaji	2·3	0	4·2	16·9	17·6	580·1	892·1	341·1	276·6	122·3	20·4	37·5
Patna	21·1	20·2	6·7	8·2	28·3	139·0	265·8	307·1	242·5	62·8	5·7	2·4
Pune	1·9	0·3	3·1	17·6	34·7	102·8	186·8	106·4	127·3	91·9	37·0	4·9
Ranikhet	54·1	62·0	46·2	31·0	50·0	144·0	331·5	344·4	165·9	33·5	7·4	22·9
Shillong	15·2	28·5	59·4	136·4	325·4	544·6	394·9	334·6	314·9	220·2	34·9	6·3
Simla	65·2	47·6	58·1	37·6	53·7	147·5	414·5	385·4	195·2	45·4	6·7	23·7
Srinagar	72·8	72·3	104·1	78·1	63·4	35·6	61·0	62·8	31·8	28·7	17·5	35·9
Trivandrum	20·1	20·3	43·5	122·1	248·6	331·2	215·4	164·0	122·9	271·2	206·9	73·1
Udaipur	9·0	4·4	3·5	2·6	4·6	87·0	197·3	206·9	120·4	16·1	5·7	2·5
Vadodara	2·0	2·4	0·7	2·9	4·1	114·8	365·8	263·5	185·5	34·5	9·0	0·2
Varanasi	25·0	21·9	11·9	3·9	12·3	91·9	306·2	342·2	225·7	59·5	9·6	3·3

Statement of sub-divisional means of rainfall in millimetres during 1976 and 1977

Sub-Divisions	1976 — June to September				1977 — June to September			
	Actual	Normal	Dep. from normal	% dep. from normal	Actual	Normal	Dep. from normal	% dep. from normal
Bay Islands	1,514	1,629	− 115	− 7	1,490	1,597	− 107	− 7
Arunachal Pradesh	1,884	2,444	− 561	− 23	2,807	2,645	+ 162	+ 6
Assam & Meghalaya	1,377	1,456	− 79	− 5	1,601	1,528	+ 73	+ 5
Nagaland, Manipur, Mizoram and Tripura	1,396	1,262	+ 134	+ 11	1,086	1,237	− 151	− 12
Sub-Himalayan West Bengal & Sikkim	1,927	2,134	− 206	− 10	1,926	2,085	− 159	− 8
Gangetic West Bengal	957	1,102	− 145	− 13	1,361	1,109	+ 252	+ 23
Orissa	978	1,151	− 172	− 15	1,144	1,138	+ 6	+ 1
Bihar Plateau	1,114	1,100	+ 14	+ 1	1,411	1,105	+ 306	+ 28
Bihar Plains	1,180	1,099	+ 81	+ 7	1,093	1,021	+ 72	+ 7
Uttar Pradesh, East	907	914	− 7	− 1	749	895	− 146	− 16
Plains of West Uttar Pradesh ..	885	820	+ 65	+ 8	849	781	+ 69	+ 9
Hills of West Uttar Pradesh ..	1,023	1,403	− 380	− 27	1,440	1,545	− 106	− 7
Haryana	782	562	+ 220	+ 39	662	517	+ 145	+ 28
Punjab	742	458	+ 284	+ 62	599	462	+ 137	+ 29
Himachal Pradesh	1,182	1,348	− 166	− 12	1,475	1,316	+ 159	+ 12
Jammu and Kashmir	555	380	+ 175	+ 46	438	380	+ 58	+ 15
Rajasthan, West	425	258	+ 167	+ 65	420	286	+ 134	+ 47
Rajasthan, East	749	633	+ 116	+ 18	922	663	+ 259	+ 39
Madhya Pradesh, West ..	1,041	933	+ 108	+ 11	1,016	936	+ 80	+ 9
Madhya Pradesh, East ..	1,001	1,200	− 199	− 17	1,204	1,185	+ 19	+ 1
Gujarat Region	1,331	834	+ 497	+ 59	1,105	774	+ 331	+ 43
Saurashtra and Kutch	588	570	+ 17	+ 3	594	523	+ 71	+ 13
Konkan	2,719	2,505	+ 215	+ 9	2,796	2,560	+ 237	+ 9
Madhya Maharashtra	679	517	+ 161	+ 31	455	517	− 62	− 12
Marathwada	608	679	− 71	− 10	518	648	− 130	− 20
Vidarbha	883	986	− 103	− 10	936	986	− 50	− 5
Coastal Andhra Pradesh ..	506	524	− 18	− 3	458	555	− 97	− 17
Telangana	872	778	+ 95	+ 12	553	778	− 225	− 29
Rayalaseema	368	413	− 45	− 11	423	410	+ 13	+ 3
Tamil Nadu	335	286	+ 49	+ 17	331	282	+ 49	+ 17
Coastal Karnataka	2,732	2,945	+ 213	− 7	3,125	2,989	− 136	+ 5
Interior Karnataka, North ..	616	580	+ 35	+ 6	544	580	− 36	− 6
Interior Karnataka, South ..	241	385	− 144	− 37	379	377	+ 2	− 0
Kerala	998	1,743	− 745	− 43	1,457	1,743	− 287	− 16
Lakshadweep	960	950	+ 10	+ 1	1,014	1,001	+ 13	+ 1

Note:—For calculation of excess and defects and their % rainfall figures are taken currect to 0.1 mm.

A TOURIST'S GUIDE

INDIA has three major seasons: winter, summer and the monsoon.

The winter months (November-February) are pleasant throughout India with bright sunny days. In the northern plains, the minimum temperature at times drops steeply and there is snowfall in the hills. In Maharashtra and the south and in eastern India, however, December and January are pleasantly cool, never really cold.

The summer months (April–June) are hot in most parts of India, and it is during this season that hill resorts such as Simla, Mussoorie, Naini Tal, Kulu and Kashmir Valleys, Darjeeling, Shillong, Ootacamund, Kodaikanal, Pachmarhi and Mount Abu provide cool retreats. (See "Meteorology" for average temperatures and rainfall.)

The south-west monsoon usually breaks about the beginning of June on the west coast and reaches elsewhere later. With the exception of the south-eastern areas, India receives the major share of its rainfall between June and September. The south-eastern areas receive most of the rainfall from the north-east monsoon between November and January.

Clothing: In northern India, where evening and night temperatures drop steeply in winter, woollen clothing is necessary from the middle of November to the middle of February. Winter in other parts of the country is mild and tropical clothing will be sufficient. For those visiting the hill resorts during this time heavy woollens are essential.

During the summer months, only light tropical and cotton clothing are comfortable. Visitors to the hill resorts, however, should carry light woollens.

Medical Facilities: In all the cities and towns there are State-managed and private hospitals and dispensaries. The services of highly qualified specialists and consultants are available in places like Delhi, Bombay, Calcutta, Madras and other large cities. Some of the chemists offer round-the-clock service. (See "Hospitals" in general index for full list.)

Foreign Exchange: Under the revised rules of the Government of India all foreigners, including those of Indian origin, are required to pay their hotel bills in foreign currency. For details please enquire at nearest Government of India Tourist Office.

The official rates of exchange are as follows: £1 approx. to Rs. 15·28; U.S. $1 equal to Rs. 8·34. The actual buying and selling rates, however, differ slightly from these rates.

Indian Currency: No Indian currency can be brought in or taken out of the country except rupee travellers' cheques.

Electric Current: Voltage in most places is 220–240 A.C., 50 cycles, though a few areas have D.C. supply as well. The tourists are advised to check the voltage before using an electric shaver or other electrical gadgets.

TOURIST INFORMATION: The main tourist offices in India are: (1) Govt. of India Tourist Office, 88, Janpath, New Delhi-110001; (2) Govt. of India Tourist Office, 123, M. Karve Road, Churchgate, Bombay-400020; (3) Govt. of India Tourist Office, 4, Shakespeare Sarani, Calcutta-700016; (4) Govt. of India Tourist Office, 35, Mount Road, Madras-600002.

Other useful addresses: 1. Sri Venkateswara Tourist Bus Owners' Assocn., 15-5-89, Afzalganj, Hyderabad 500012; 2. Tirumala Tirupati Devasthanam Information Service, Himayatnagar, Hyderabad 500029; 3. International Tourist Information Centre, Madhireddi Niwas, 134, Jagannadhapuram, Machilipatnam 521001; 4. Tour Operators & Travel Agents Assocn. of India, 16/10200, Gurdwara Rd., Karol Bagh, New Delhi 110005.

GOVERNMENT OF INDIA TOURIST OFFICES ABROAD:

Brussels: Office National Indian De Tourisme, Revenstein 60-Boite 15, B-1000 Brussels (Belgium); Tel.: 02/511-1796; 02/513-5381.

Chicago: Govt. of India Tourist Office, 201, North Michigan Avenue, Chicago, Illinois 60601 (USA); Tel.: 312-236-6899; 236-7869; 236-7270 Area Code 312.

Dallas: 9846, Audelia Road, Apartment 254, Dallas, Texas 75238; Tel.: (214) 348-0518.

Detroit: 9267 Pickwiek CR-23 E, Taylar, Michigan 48180.

Frankfurt: Indisches Verkehrsburo Kaiser Strasse 77-III 6, Frankfurt/Main (West Germany); Tel.: 232380; 775416; 232396.

Geneva: Office National Indien De Tourisme, 1-3, Rue de Chantepoulet, 1201, Geneva (Switzerland); Tel: 321813.

Kuwait: India Tourist Bureau, Fahd Al-Salem Street, Post Box 1450, Safat, Kuwait.

London: Govt. of India Tourist Office, 21, New Bond Street, London WIYODY; Tel.: (01)493-0769; Willesden 1459-8281.

Los Angeles: Govt. of India Tourist Office, 3550, Wilshire Blvd. Suite 204, Los Angeles, California 90010; Tel.: (213)380-8855, 8856 & 8857.

Melbourne: Govt. of India Tourist Office, C/o Air India, 440, Colling St., Melbourne V/C-3000. Tel.: 677111.

Miami: 1020 N. E. 165 Terrace Miami, Florida 38162, Tel.: (305)-944-7039.

Milan: Ufficio Nazionale Del Tourisme Indiane, Via-Albricei-9, 20122, Milan (Italy); Tel.: 804952; 2711023.

New York: Govt. of India Tourist Office, 30, Rockefeller Plaza, North Mezzanine, New York N.Y. 10020, (USA); Tel.: 586-4901; 4-1997.

Paris: Office National Indien De Tourism, 8, Boulevard de-la-Madelelne, 75009, Paris 9 (France); Tel.: 073-00-84; 525-46-04; 265-83-86.

San Francisco: 8C, The Carillon 1100, Gaugh Street, San Francisco, CA. 94109 (USA); Tel.: (415) 928-5572.

Singapore: Govt. of India Tourist Office, Podium Block, 4th Floor, Ming Court Hotel, Tanglin Road, Singapore-10; Tel.: 2355737, 645118.

Stockholm: Govt. of India Tourist Office, Sveavagen 9-11, Box 40016, 103-41, Stockholm-40; Tel.: 215081.

Sydney: Govt. of India Tourist Office, Carlton Centre, 55, Elizabeth Street, Sydney N.S.W. 2000 (Australia); Tel.: 232-1600; 232-1796.

Teheran: Govt. of India Tourist Office, House No. 18 (Third A), Moshir Alley, Teheran, Iran. Tel. 827518.

Tokyo: Govt. of India Tourist Office, Pearl Building, No. 9-18, Ginza 7 Chome Chuo-ku, Tokyo (Japan); Tel.: 571-5062; 461-4373; 942-1496.

Toronto: Govt. of India Tourist Office, Suite 1016, Royal Trust Tower, P.O. Box 342 Toronto-Dominion Centre, Toronto-1, Ontario (Canada); Tel.: 362-3188; 226-4690.

Vienna : Stastliches Indishes Verkehrsburo, Opernring 1 1010 Vienna, (Austria); Tel.: 56-17-59.

Washington : 1900 South Eads Street, Apt. 902, Arlington (Virginia 22202); Tel.: (703)-521-8973.

ACCOMMODATION : (See "Hotels" in general index for full list.)

There are modern western-style hotels in all large cities as well as at popular tourist centres. These have been classified on the internationally accepted star system. Hotel charges in India are moderate compared to those of many other countries.

At tourist centres where hotel accommodation is not adequate, there are travellers lodges/tourist bungalows constructed and run by the India Tourism Development Corporation, a Government of India Undertaking, or by the State Governments which offer comfortable lodging and meals.

House boats fully furnished and staffed are moored to the banks of the river Jhelum and Dal and Nagin lakes in Kashmir and are known for their comfort and convenience.

Many centres of tourist interest in India are situated in out-of-the-way places. At most of these tourist centres there are Government owned rest houses (semi-hotel establishments) where tourists can stay. These are all close to national highways and convenient for tourists travelling by road. There are more than 70 such low-income group rest houses and bungalows which provide cheap hostel facilities to low-income group people. It is advisable to make reservations in these rest houses sufficiently in advance.

Youth Hostel accommodation is generally available in the hostels of schools and colleges in most places of tourist interest during vacations only, in summer from May to July and in winter during December. However, there is a Youth Hostel in Delhi open throughout the year. Organised camping facilities exist in New Delhi at the Bharat Scouts and Guides ground, Near Humayun's Tomb, New Delhi.

The Department of Tourism, Government of India have constructed Youth Hostels at: Amritsar, Aurangabad, Bhopal, Dalhousie, Darjeeling, Gandhinagar, Hyderabad, Jaipur, Madras (Indiranagar), Nainital, Panaji, Panchkula (Haryana), Patnitop, Puri, Trivandrum. Youth Hostels under construction will be situated at Hampi and Pondicherry.

Details for all these places can be had from any of the Government of India Tourist offices.

MODE OF TRAVEL TO INDIA : The overland route from Europe to India passes through France, Germany, Yugoslavia, Bulgaria, Turkey, Iran and Pakistan-Hussainiwala. On the Indo-Pakistan border, 26 kms. from Amritsar, is the only check-post called Attari.

There is also a rail-cum-sea route to India. Rail connections are available from European countries to Turkey and then to Basra (Iraq). From Basra, there are regular sailings to Bombay.

Travel within India : The Indian Airlines network of services connects more than 70 cities including many centres of tourist attraction. (See air route and tourist map at the end of the book.)

Indian Airlines offers concessional fares for foreigners and Indian residents abroad. The rates are: (*a*) Discover India fare: $200 for 14 days or $275 for 21 days for travel on all domestic sectors with unlimited stopovers. (*b*) Youth fare concession: A 25% discount on normal air fare on all domestic sectors is offered to persons below 30 yea
of age.

The railways in India go almost everywhere and off
concessional **Indrail Pass** which is inclusive of reservati
charges. These passes are issued only on payment of forei
currency to foreigners and Indian residents abroad.

INDRAIL PASS & FARES (in U.S. Dollars)

Period of Validity		A.C. Class		First Class/ A.C. Chair Car		Second Cla	
		Adult	Child	Adult	Child	Adult	Child
7 days	..	70	35	35	18	12	6
15 days	..	100	50	50	25	17	9
21 days	..	125	63	63	32	21	11
30 days	..	150	75	75	38	25	13
60 days	..	220	110	110	55	37	19
90 days	..	260	130	130	65	45	23

With the introduction of the above concession, all other
concessions like student and circular ticket concessions
remain cancelled.

Motoring in India : Tourists who wish to travel b
automobile can obtain full information regarding ro
conditions, driving regulations, driving licences, 'Tri
and 'Carnet', from the recognized Automobile Ass
tions listed below. Private taxis or luxury tourist tax
can be hired though self-drive cars are not genera
available in India.

(1) The Automobile Association of Upper India, (behin
Hindustan Times Bldg.), Lilaram Bldg., 14-F, Conna
Place, New Delhi 110001 (Tel. 42063); (2) Wester
India Automobile Association, Lalji Naranji Memor
Bldg., Churchgate, Bombay 400020 (Tel. 291085); (3) Aut
mobile Association of Eastern India, 13, Ballygunj Circu
Rd., Calcutta 700019 (Tel. 475131); (4) Automobile Ass
ciation of Southern India, 38A, Mount Rd., Madras 6
(Tel. 86121/2/3); (5) U. P. Automobile Association, 32
M. Gandhi Rd., Allahabad 211001 (Tel. 2445); Aut
mobile Association of Kerala, Collectorate Junction, K
tayam 686001.

Insurance : A third party insurance is compulsory fo
all motor vehicles which are in use. The insurance mu
be with a company registered in India.

Traffic circulation is on the left and the price of pet
is Rs. 3·50 per litre (4·5 litres are equivalent to one ga
approximately) in Bombay, even though the prices var
from place to place, and lubricating oil is approximate
Rs. 10·50 per litre.

Visa: Every foreign tourist entering India should be
possession of a valid passport issued by his Governmen
and tourist visa from the Indian representative abroad
the British representative in countries where there a
no Indian representatives. Commonwealth citizen
(except those of Uganda, Kenya, Republic of I
Sri Lanka, British subjects, British protected person
and missionaries), nationals of Norway, Sweden,
Denmark and Finland, Yugoslavia, Bulgaria and W
Germany are exempted from the visas requirement for
period of 90 days provided their passports are valid f
travel to India. Persons of non-Indian origin domiciled
South Africa are, however, required to obtain visa f
India. Nepalese and Bhutanese, when proceeding fro
their respective countries need no passport or visa.
Africans of Indian origin also do not require a visa.

Landing Permits: Tourists who arrive without a visa may be allowed by the Immigration Authorities at the port of arrival to land and stay in India for a period of upto 30 days provided they are holding tickets for their outward journey from India. Such permission, which will be available for air and sea passengers, may also be made valid for departure from India from a port other than the port of entry. Collective landing permits may also be issued to tourists travelling in organised groups. Temporary landing permits are not issued to tourists entering India by road and to nationals of certain countries.

Foreigners who come on visits not exceeding 3 months for recreational or sightseeing purposes or for attending meetings convened by the Government of India or international bodies should, in their own interest, apply for tourist visas. These may be extended for a further period of 6 months. Foreign tourists and Indian residents abroad visiting India are entitled to the grant of Tourist Introduction Cards which helps them in getting accommodation in Rest House, Dak Bungalows, Railways, Indian Airlines, etc. Only foreign tourists are entitled to all India Liquor permits which entitle them to buy, consume and possess liquor in States where prohibition exists.

Special Permits: Foreigners visiting Darjeeling town, Shillong for 15 days and Kaziranga Wild Life Sanctuary for 7 days for the purpose of tourism, do not require permits provided they travel by air to Bagdogra and Gauhati. Foreign visitors require special permits to visit certain areas if they travel by air and road like Darjeeling in West Bengal and Shillong and Kaziranga in Assam. These permits may be obtained either from the Foreigners Registration Offices at Bombay, Delhi, Calcutta and Madras or from the Immigration Officers at the airport in the above cities. Foreigners who wish to visit Bhutan must apply two months in advance to the Ministry of External Affairs, Bhutan Section, New Delhi. Foreigners who wish to visit Sikkim, Andaman and Nicobar Islands and Laccadive Islands must apply in advance to the Ministry of Home Affairs, New Delhi.

A foreigner resident in India, who wishes to make short trips abroad of not more than 3 months, can obtain "Return Visas" from the Foreigners' Regional Registration Offices or the State Governments. If the visit abroad is of longer duration "No objection to Return" endorsements can be obtained. Such endorsements are valid for one year in the case of missionaries and 6 months in the case of others and within these periods Indian Missions can issue re-entry visas on the strength of such endorsements.

Registration of Foreigners: No registration is required for foreigners staying in India for 90 days or less provided they have come on visas of 3 months or less. If they land in India with visas for more than 3 months' stay, then they must report for registration within 7 days to the Registration Officer of their destination and present the "B" Form (temporary registration certificate) issued to them at the place of entry.

Commonwealth citizens (other than missionaries) are exempted from registration formalities except British passport holders whose national status is described as British subject and missionaries, British protected persons and Australian protected persons.

Return visa or double/triple entry visa holders would be required to get themselves registered after 90 days of their actual stay in India and not after 90 days of their first entry into India.

Departures: Tourists, if they are registered, are exempted from reporting their movements. However, all visitors holding registration certificates have to obtain, before departure exit endorsements from the Registration Officers of the district in which they were initially registered. The Foreigners' Regional Registration Officers can also grant these endorsements to visitors residing within their jurisdiction. Permits have to be surrendered at the Foreigners' Registration Office in the city and not at the airport. Registration certificates and residential permits are to be surrendered at the port of departure.

Health Permits: There are no restrictions but it is advisable to take Cholera, Typhoid, Small-pox and Yellow fever inoculations and vaccinations.

Yellow fever areas are Africa and some countries of South America. For passengers coming from or through these areas or by an aircraft which has been to an infected area but has not been disinfected it is essential to have the vaccination to avoid being quarantined for 9 days. The certificate is valid for 10 years 10 days after the vaccination.

Baggage: All baggage is subject to customs examination. Articles of high value *e.g.* radios, cameras, binoculars, fire arms, jewellery, type-writers, transistors, etc. are exempted from duty provided they are entered in the re-export declaration form and re-exported within 6 months.

Tourists are allowed to bring into India travellers' cheques or foreign currency notes of any amount subject to declaration on the Currency Declaration Form issued by the customs at the air/sea port or checkpost on the land border.

Additional concessions for tourists: *Sporting Fire-arms:* Not more than three sporting fire-arms brought in by a tourist are allowed free of duty. These must, however, be re-exported.

Cartridges: Each tourist is allowed to bring in 200 (exclusive of 200 allowed duty free) cartridges, on payment of customs duty, but without an Import Licence.

Film: A tourist is allowed to import two still cameras with 25 rolls of film or 48 plates plus 50 rolls on entry in Tourist Baggage Re-export Form and also one miniature cinematograph camera of 8 mm with 10 reels of films plus 20 reels on entry in Tourist Baggage Re-export Form.

TRAVEL AGENCIES: *A complete list of Govt. approved Travel Agencies appear under "Services". Please see General Index under "T".*

PLACES OF TOURIST INTEREST IN CENTRAL REGION

Sanchi: It is 45 kms. (28 miles) from Bhopal, the Capital of Madhya Pradesh. Sanchi was not directly associated with the life of Buddha, but grew to be an active centre of Buddhism during the time of Ashoka (3rd Century B.C.). The magnificent and relatively well preserved monuments for which Sanchi is famous are all situated atop a hill overlooking woods where "Flame of the Forest" trees bloom fiery red in the summer. The most imposing of the monuments is the Great Stupa (about 150–100 B.C.)—huge semi-circular structure, surrounded by profusely carved gateways and railings depicting scenes from the Buddha's life. In the history of Indian art, the Sanchi stupa occupies a very important place, for it has influenced Hindu and Buddhist sculpture for many centuries that followed.

Khajuraho: Nearly 402 kms. (250 miles) south east of Delhi (flying time 2 hrs. 15 mts.) are the erotic temples of Khajuraho in Madhya Pradesh, belonging to about 950 to 1150 A.D. They are ranked among the world's topmost tourist attractions, and represent some of the most exquisite specimens of Hindu architecture and sculpture in medieval India. The carving in the temples still seem to breathe a life and passion of their own and their beautiful proportions, the vibrant texture of the carvings which enrich their walls and their impressive size testify to the glories of the master builders of those days.

GAME SANCTUARIES, NATIONAL PARKS

Kanha National Park : In the central highlands of India is one of the finest places for seeing Indian swamp deer, chital, blackduck, Indian bison, sambar and various carnivores. There are also nearly a hundred species of birds in this park. It can be reached by a motorable road from Nagpur (273 kms. or about 170 miles).

Accommodation : Forest rest houses.

Shivpuri National Park : The game preserve of the former rulers of Gwalior State, this 158 sq. km. (61 sq. miles) park is the natural abode of the sambar, chital, nilgai, chinkara and the Indian tiger. It is about 181 kms. (about 112 miles) south of Gwalior.

Accommodation: Shivpuri Hotel, Circuit House and Dak Bungalow.

IN EASTERN REGION

Calcutta : Calcutta was born with the beginnings of the British rule in India and thus has no ancient monuments to talk about. Victoria Memorial which houses the relics of British rule in India, the Indian Museum treasuring the relics of ancient civilization and the Ashutosh Museum displaying Bengali folk art are some of the places worth visiting. The impressive Howrah Bridge leads to the Botanical Gardens and to Belur Math, the seat of the Ramakrishna Mission.

Bodh Gaya : It is the most sacred of Buddhist centres because it was here that the Buddha attained enlightenment under the 'Peepal' tree. A number of monuments were raised at this site in the subsequent centuries. The Mahabodhi Temple, a magnificent structure with a pyramidal tower of nine storeys, 48·75 m. (160 feet) high, contains a colossal gilded image of the Buddha in the earth-touching posture symbolising the event of enlightenment. The temple was probably built in the 4th century A.D. and restored several times subsequently. Bodh Gaya is 11·26 kms. (7 miles) by road from Gaya railway station which is connected with Patna by rail (92 kms. or 57 miles).

Darjeeling : Hill station in West Bengal lies on the lower slopes of the Himalayas about 600 kms. (370 miles) north of Calcutta. It is 2,167·12 m. (7,110 feet) above sea level. From here, one can view the Himalayas in all their majesty, range upon range of perpetual snow culminating in Kanchenjunga (8,578·90 m. or 28,146 ft. high). The quaint Buddhist shrines and monasteries, the happy carefree faces of the hill-folk and above all the picturesque scenery all around will abide in the visitor's memory.

The Kanchenjunga can always be seen, while the Everest, the highest peak in the world, is visible only on a clear day. Other favourite walks for the visitor are to Birch Hill and Lebong. The former is a reserve forest with an excellent park. Here the visitor will find oak, chestnut, cherry, maple, birch and alder.

Not far from the Birch Hill Park is the Himalayan Mountaineering Institute which provides training in mountaineering in the Himalayas. Mr. Tenzing Norkay, who climbed the Everest along with Sir Edmund Hillary, is associated with the Institute. The Observatory Hill, above the church, is known to the Buddhists as 'Rdo-rje-gling', 'the place of the Dorje', the mystic thunderbolt of the lamaist religion. It is from this that Darjeeling takes its name. The bazaars of Darjeeling are very ex There you will find curios, carved wooden boxes, pieces of jewellery, embroidered shawls and art On Saturdays and Sundays, the picturesque hill folk Bhutias, Nepalese, Tibetans, Lepchas — throng the marke place with their wares and look most colourful.

Darjeeling can be reached from Calcutta by air up Bagdogra and from there by road (88 kms. or 55 mile

Bhubaneshwar : Orissa's new capital, a metropo of temples, was built around a sacred lake which w once encircled by some 7,000 shrines. Now only 5 remain in decay, presenting a complete picture of Oriss art and history from the 3rd century B.C. to the 16 century A.D. The great Lingaraj Temple is supposed to "the finest example of a purely Hindu temple in India Pilgrims come here for blessings and then take a dip the sacred lake "Bindu Sagar." This 20th century gard city has many other attractions like the nearby Jain an Buddhist rock cut caves of Khandagiri and Udayagi The beautifully preserved Asoka's rock edicts at Dhau carved around 260 B.C. narrate the horrors of t Kalinga war and Asoka's acceptance of the path non-violence.

Puri : About 63 kms. (39 miles) by road from Bhubaneshwa is the sacred city of Puri dominating Orissa's sea coast in a its secluded splendour. It is one of the 'Char Dham', th four most holy places of pilgrimage in India, the thr others being Badrikedarnath in the north, Rameshwara in the south, and Dwarka in the west. Every year, in th month of June, as many as two hundred thousand visito and pilgrims flock to Puri to watch the Car Festiva when the images of the Jagannath ('Lord of the Universe Temple are taken over a distance of one mile to the garde shrine of Gundicha Mandir. The gigantic car 11 m. (35 ft long and 14 m. (45 ft.) high with 16 wheels — each 2·13 m (7 ft.) in diameter — is used for carrying the deities. It is unique sight to see thousands of devotees vying with ea other to pull the chariot.

Modern Puri has been built more or less along the beac which stretches east to west. The sea is shallow for abou a mile from the beach, but the surf breaks with a ra violence on the shore. From early morning the beach thronged with people who sport or bathe in the roarin but harmless waves.

Konarak : The Sun Temple of Konarak, on th seashore, about 66 km. (41 miles) from Bhubaneshwar stupendous in proportions and truly amazing in its orna mentation. Standing in lonely splendour among the san dunes, built in 1250 A.D. and dedicated to the Sun Go the temple is in the architectural image of the mythic chariot of the Sun rushing through the blue heavens The twelve pairs of wheels of the chariot are the last wor in sculptural artistry and the seven horses in fron straining to pull the massive weight, are superbly execute Intensely lovely are the thousand and one figures musicians, lovers, couples in embrace, floral designs, th enormous horses and elephants flanking the templ scenes of the battle and the chase — all masterpieces.

Traveller's Lodge at a short distance from the templ is a very comfortable place to stay in, but tourist prefe to visit Konarak in a one-day trip from Bhubaneshwar.

Chilka Lake : About 96 kms. (60 miles) south of Bhubaneshwar is this great lake, famed for its rich bird life and favourite resort for fishermen. Its scenery is of great natura beauty and many people travel there to watch the eve changing light at dawn, at noon, at sunset, in winter and summer, in sunshine and in the rains.

Some of the most attractive aborigine tribes live the neighbourhood of this lake.

Accommodation : P.W.D. Inspection Bungalow at Barkul which overlooks the lake.

Hyderabad-Secunderabad : The twin city linked together by the Hussain-Sagar (lake), is the capital of Andhra Pradesh. It is a centre of Muslim culture and learning and the fifth largest city in India. Standing on the banks of the river Musi, it was till 1948 the capital of Hyderabad State of Nizam, one of the richest men in the world. The Salar Jung Museum crammed with curios from all over the world, old manuscripts, costumes and ancient weapons is a living proof of the riches. Trapezoid in shape the city is surrounded by a stone wall. At the junction of wide avenues stand the Char Minar, a stately rectangular white building with four tall minarets often referred to as the "Arc de Triomphe" of the East. It is the famous landmark of Hyderabad and curiously made more famous by a brand of cigarettes of the same name said to be one of the strongest, cheapest and most satisfying kind on the market. To the south of Charminar lies the Chaumahalla Palace and to the west the Mecca Masjid, the principal mosque of Hyderabad. Built entirely of stone and richly decorated in coloured and polished plaster it boasts of an interior that can hold ten thousand worshippers at a time.

The Falaknuma Palace, the Osmania University and the beautifully laid out river gardens are some of the recent additions to the city that blend well with the old.

The tombs situated 8 kms. (5 miles) out of the city, are of Qutbshahi kings who ruled in the 16th and 17th centuries. Next to it is the massive Golconda Fort. It is surrounded by a strongly built wall of solid blocks of granite, with eighty-seven bastion at the angles, on which there are still some of the old guns. Now in ruins it was once famous as the diamond mart for the nearby mines.

GAME SANCTUARIES/NATIONAL PARKS

Jaldapara Sanctuary : This 93 sq. km. (36 sq. miles) area on the river Torsa in North Bengal is the abode of the famed Indian rhinoceros. Swamp and barking deer, sambar, pig and sometimes wild elephants are also seen here. Best months to visit are December to May. The nearest airport is Cooch Behar 100 kms. (62 miles), which is connected by air with Calcutta.

Accommodation : Tourist Bungalow.

Kaziranga Sanctuary : Famous as the main stronghold of Indian rhinoceros this 430 sq. km. (166 sq. miles) sanctuary also has elephant, wild buffalo, deer, sambar and many species of water birds. Best visited between December and May. It is 218 kms. (135 miles) from Gauhati which can be reached by air from Calcutta.

Accommodation : Forest Inspection Bungalow at Baguri.

Manas Sanctuary : Close to the Himalayas, it is 153 kms. (95 miles) west of Gauhati. Besides wild buffalo, elephant, Indian bison, tiger and deer the added attraction is the scenic beauty. Fishing is also possible here. October to May is a good time to visit.

Accommodation : Forest Department Bungalow at Mothanguri.

Note : A special permit is required to visit Kaziranga and Manas Sanctuaries in Assam State. It can be obtained from Assam House, 8 Russell Street, Calcutta-700016, which would take about five to six days to process. This applies to all regions in Assam and Meghalaya except Shillong.

Hazaribagh National Park : Situated in Bihar State.

Accommodation : Tourist Lodge; Forest Rest House (Kanari); Barodabari Forest Bungalow; Circuit House; and D.V.C. Guest House.

Palamau National Park : In Bihar State.

Accommodation : Tourist Lodge; Tourist Cottages; and Forest Rest House (Kechki).

Dalma Wildlife Sanctuary : Near Jamshedpur in Bihar.

Semlipal National Park : Situated in the State of Orissa.

Accommodation : Forest Bungalows and Cottages at Chahala; Nawana; Jonabil and Gudgudea.

IN NORTHERN REGION

Delhi : Like Rome, the capital of the Indian Republic, is an 'eternal city', and with a history even more chequered and ancient. In the ancient days, the city shifted its site at least seven times and the ruins of all these townships are still there for anyone to see.

There are today two Delhis — the old city of the Mughals built by Shah Jahan, the Emperor who built the Taj, and the new city built by the British in 1931. While Old Delhi evokes a distinctly oriental atmosphere, New Delhi has wide avenues and imposing office buildings. Both the cities are rich in monuments and mosques; such as the Red Fort, the Jantar Mantar Observatory, Humayun Tomb, the Parliament House, the Rashtrapati Bhavan and many more.

Agra : The city of the world famous Taj Mahal has many other historical sites of interest like the fort of the Mughals, the ruins of Fatehpur Sikri — a city built by Akbar — a Mughal Emperor. It also has numerous and fabulous tombs of eminent personalities. Special tourist bus and trains run from New Delhi for a day's journey.

Chandigarh : Now a Union Territory and also the capital of the Punjab and Haryana, the youngest of the Indian capital cities, it is a striking example of modern town planning conceived by Le Corbusier and Maxwell Fry. Advanced styling is adapted to the local climatic needs making it an unique city in the whole of India.

Amritsar : City in the Punjab, is the religious capital of the Sikhs. It was founded in 1577 around a sacred pool, from which the city takes its name "Pool of Nectar". The Golden Temple stands in the centre of this pool. The marble based temple has bronze sides and dome which are heavily covered with pure gold leaf. These reflect the tropical sun into the still waters of the pool, illuminating it and creating an atmosphere of awe and respect. There are a few more of the Sikh and Hindu temples worth seeing, but none surpass the peaceful aura of the Golden Temple.

Almora : In U.P. (133 kms. or 83 miles from Kathgodam Railway Station) is the main town in Kumaon Hills. Perched at an elevation of 1,706·88 m (5,600 ft.) it is about two miles in length like a saddle, and is said to have been founded four hundred years ago by Raja Kalyan Chand. Almora has moderate rainfall, temperate climate, the temperature seldom rising above 31°C (88°F), even during the summer days, and comparative freedom from fog. Within easy distance of Almora are many Himalayan peaks — Seehee Debi, Bandnee Debi and Binsar being the chief ones. Binsar Hill also known as Jhandi Dhar is only 21 kms. (13 miles) from Almora and the bridle path leading to it, passes through enchanting jungle scenery.

Accommodation : Available at the Government circuit house for which an advance booking has to be made.

Pindari Glacier : Can be reached from Almora at a distance of 120 kms. (75 miles) in eight stages, attaining an altitude of 3,963 m. to 4,267 m. (13,000 to 14,000 ft.). The most suitable time for this trip is either May–June or September–October.

Naini Tal : Hill station also in Kumaon Hills, is attractively situated around a mountain lake 1,935·48 m. (6,350 ft.) above sea level. A shady avenue skirts the lake. On either side of the lake rise lofty hills dotted with beautiful villas and bungalows. There are a number of picnic spots around from where one can have a magnificent view of the snow peaked Himalayan mountain range. Nainital District has a chain of lakes lying close to one another, the prettiest amongst them being lake Naini itself. They are a veritable paradise for the angler. Besides fishing, one could also do swimming, yachting, boating, riding, skating and trekking.

Kashmir : The Great Mughals, who were connoisseurs of the good things of life, described Kashmir as 'the earthly paradise'.

Indeed, it is difficult to imagine anything more lovely. It is a vast, rich, green valley criss-crossed by streams and rivulets and encircled by stupendous snow-clad mountains — 'an emerald set in pearls'. Nature has adorned it with lakes of limpid waters, bubbling springs by hill-sides, upland pastures and springy meadows. Clothing the valley is a vast expanse of paddy fields and forests alive with a variety of birds and animals. To enhance its natural beauty, pleasure gardens were laid out by the Great Mughals at many places in Kashmir.

Here you can stay in luxury in a floating hotel called the 'house-boat'; glide gently on the placid waters of the Dal Lake in a shikara; play golf on perhaps the world's highest golf-course; enjoy a variety of water sports; or, if you are adventurous, go trekking or hunting. Also, you can take back home some of the exquisitely embroidered, carved, chiselled or painted handicrafts for which Kashmir is known the world over.

Srinagar : Is a central place from where excursions and pleasure trips to all parts of the valley can be planned. It is itself a picturesque place with lakes, gardens and monuments along the river Jhelum.

Srinagar is an ancient city believed to have been first built by Emperor Asoka in the third century B.C. The Jhelum flows through the heart of the city, dividing it into two parts which are connected by nine bridges. A trip down the river in a swiftly gliding shikara would give the visitor a feel of the city's picturesque balconies, busy ghats, mosques and temples.

Gulmarg : Is about 46 kms. (29 miles) from Srinagar, a huge grassy bowl, known for its golf-course. The last 6·4 kms. (4 miles) of the journey are covered either by a pony or on foot and, with special permission, by jeep also. At the end of the climb, the visitor is rewarded with a magnificent view of Gulmarg which has numerous walks and picnic spots.

Pahalgam : In the lovely Lidder Valley, about 97 kms. (60 miles) from Srinagar is known for its exquisite scenery, springs and streams. It is also the base for treks to higher points like Amarnath and Sheshnag.

Kulu and Kangra Valleys : Well-known for its picturesque landscapes and historic temples, lies in Himachal Pradesh. 33·7 kms. (21 miles) from Kangra is the famous temple of Jwala-Mukhi, built up against a rocky cliff. An inflammable gas issues forth from a cleft in the cliff, creating an atmosphere of reverence. Kangra has several tea gardens while Kulu is well-known for the fruit orchards. The winding narrow roads flanked and shaded by pink blossomed apricot trees, huge rhododendrons and blue and purple iris in different seasons lead to the hilltops that look down on a gorgeous alpine scenery. These valleys are favourite vacation places as the summer is never uncomfortably hot and offer sports like golf, tennis, swimming, hiking and trout fishing.

Here the simple and unsophisticated people are a contented lot with few needs and fewer worries. These happy-go-lucky people hold fairs and festivals throughout the year and it would be wise to check and be there on a festival.

Allahabad : (Also called Prayag): City in U.P. situated at the confluence of the Ganga, the Jamuna and the unseen Saraswati. The confluence is the holiest bathing place for Hindus. Every 12 years, Kumbha Mela (religious fair) is held attracting over four million pilgrims during the four weeks. The last one was held in February 1965. A smaller fair occurs every six years — Ardha Kumbhi. The old Mughal fort contains an underground temple where well carved images are seen and the pilgrims worship at a small tree taking it to be the Eternal Banyan Tree (Akshaya Vata). 104·6 kms. (65 miles) from Allahabad is Kosambi, where the ruins of an ancient capital are being excavated.

Banaras : Now known as Varanasi, is more than a holy city of the Hindus; it represents a way of life. For more than a thousand years this centre of Hindu pilgrimage has lived a rich life haloed by tradition on the banks of the great river Ganga which reaches Varanasi in a graceful curve. For more than a thousand years great masses of people have come here from every corner of the country to receive spiritual sustenance.

The oldest city in the country and perhaps the oldest living city in the world, Varanasi has about 1,500 temples besides countless minor shrines which are thronged with pilgrims all the year round.

Sarnath, a Buddhist centre with many architectural ruins, is about 9·6 kms. (6 miles) from Varanasi. The Buddha preached his first sermon here.

Jaipur : Capital of Rajasthan State, it was planned and built by an astronomer-prince in the 18th century, when there were few planned cities even in Europe. "I have seen Jaipur, and now I can die" was how Max Lerner, a famed traveller, felt after having an eyeful of this beautiful pink city. Comparing it with Venice and Paris, he named Jaipur along with them as the three most beautiful cities of the world. But he found something more in Jaipur — a dream quality about the fabric of its delicate gossamer structure, its lattice work and pink terracotta. This picturesque city — a fantasy in stone — set in the heart of Rajasthan is encircled by rugged hills crowned with medieval fortresses reminiscent of the days when the valiant Rajputs fought fierce battles and long drawn out wars to save their beloved land from invading alien hordes. The city palace in the centre of Jaipur is now a museum of Rajput & Mughal miniature paintings, an armoury and rare manuscripts. The Hawai Mahal Palace of the winds — has so many windows with perforated screens that the breeze sweeps through them. Maharaja Jai Singh who built the city in 1727 was also a great astronomer. He built an observatory with instruments of his own design. About 11·2 kms. (7 miles) away is Amber palace perched on the slopes of a steep hill and surrounded by a lake. A majestic elephant takes the visitor up the slopes and into this mysterious palace that possesses the world's best chamber of mirrors. Jaipur pottery, brassware, sculpture, ivory and sandalwood work and jewellery have enjoyed a great reputation from ancient times.

Udaipur : In Rajasthan, is the romantic city of lakes with island palaces. The sprawling marble palaces with coloured glass of amber and pale jade reflect in the steel blue waters of the lake Pichola. Hundreds of green pa lend colour to the early morning skies. Surrounded by wooded hills the city is aptly called the 'City of Dreams'. The Jag Nivas palace with fountains and gardens and apartments with courts, has now been turned into the Lake Palace Hotel and offer the visitor a unique and unforgettable stay.

About 112·6 kms. (70 miles) from Udaipur is Chittorgarh. The ruins of this abandoned capital of Mewar speak eloquently of the many grim and glorious deeds of Rajput heroism and sacrifice which have almost become a myth.

Mount Abu: In Rajasthan (3,822 ft. above sea level) is famous for its Dilwara group of Jain temples (11th-13th century A.D.). Having the most intricate and finest marble-carvings in India, these beautiful temples nestle among the lush green mango trees. Hills surround them on all sides and the scenic beauty is very enchanting. Abu is known for its variety of birds and the flowering trees in its jungles. It is reached by rail and road from Ahmedabad.

GAME SANCTUARIES

Bankatna Wild Life Sanctuary: In Uttar Pradesh.

Accommodation: 3 Forest Rest Houses.

Bharatpur Wild Life Sanctuary: In Rajasthan State.

Accommodation: India Tourist Development Corporation's Travel Lodge, Bharatpur; Forest Rest House, Shanti Kutir.

Darraha Wild Life Sanctuary: In Rajasthan.

Accommodation: Forest Rest House.

Corbett National Park: In Uttar Pradesh lying in the beautiful foothills of the Himalayas it is the haunt of tigers, leopards, deers and sambars, also hyenas, jackals and wild elephants. It is 294 kms. (183 miles) by road from Delhi. Best time to go there is between January and May.

Accommodation: Forest Rest House.

Chandraprabha Sanctuary: Also in Uttar Pradesh is 72 kms. (45 miles) from Banaras. In 1957, it was selected as a suitable new home for the Indian lion and some of them were brought here from the Gir Forest in Gujarat. Nilgai, pig, chinkara, sambar and chital are also found here. Best time to go there is between December and April.

Accommodation: Tourist Hutments.

Dachigam Sanctuary: In Jammu and Kashmir State, it consists of Lower and Upper Dachigam, about 20 kms. (13 miles) from Srinagar, where one can still spot the famous but now very rare Kashmir stag. Black bear and pig are also found in this beautiful scenic surrounding.

Accommodation: Forest Rest House.

Dudhva National Park: Situated in Uttar Pradesh.

Accommodation: 2 Forest Rest Houses.

Nanda Devi Musk Deer Park: Kedarnath Forest Division has opened a musk deer park in *Nandadevi Wildlife Sanctuary* in Chamoli dist. of U. P. to preserve the rare and valuable musk deer.

Mount Abu Wild Life Sanctuary: In Rajasthan State.

Accommodation: Forest Rest House.

Ramthambore Wild Life Sanctuary: In Rajasthan State.

Accommodation: Jogi Mahal; Forest Rest House.

Sariska Game Sanctuary: In Rajasthan, near Delhi.

Accommodation: Tourist Bungalow.

Sultanpur Lake Bird Sanctuary: In Haryana State, 40 kms. from Delhi on the Gurgaon-Farrukhnagar Road.

Accommodation: Tourist Bungalow.

IN SOUTHERN REGION

Madras: Capital of Tamil Nadu is the gateway to a pleasant land, the city of an ancient civilization exemplified in its many monuments of the past with a rich heritage of culture. Although being carried along on the stream of progressive development yet remaining largely unspoilt, Madras is one of the more attractive cities of India. Perhaps the first claim to fame for Madras is its wonderful foreshore of fine sandy beach stretching from the harbour to the limits of the city at the Adyar river and then beyond for many miles to the south. It is a source of pride to the people, for it is considered to be the second longest beach in the world. There are delightful gardens along its whole length with many varieties of flowers.

Speaking of culture the visitor instantly feels the difference between the rest of India and the south in this city which can be the starting point for an introduction to the Dravidian culture. The many invasions of the aliens never quite reached upto the south and the pureness of this culture remains intact. The temples, the music and the dance all vibrate in its original form and one should never leave Madras without seeing a Bharat Natya dance performance. Much of the poses and stances of this dance are depicted in the sculptures of the South Indian temples.

Mahabalipuram: 59·5 kms. (37 miles) out of Madras are some of the ruins of the great Pallava Empire. The shore temple, a little gem of a shrine, stands poised on the very shore, the waves beating against it. The cave temples are store-houses of art. The so-called pagodas are carved out of rocks, in the form of temple chariots and are the chief glory of Mahabalipuram.

Conjeevaram (Kanchipuram): The city of temples, the Banaras of the South, is about 72 kms. (45 miles) to the south-west of Madras. The place is divided into three parts, Shiva Conjeevaram, Vishnu Conjeevaram and Pillayar Paliyam, a testimony to the part played by all the main Hindu religious sects in the history of the city.

There are over a thousand temples in all, amongst them is the temple of Kailasnath, believed to be 1,200 years old and contains some excellent 7th and 8th century paintings on the walls. More of these wall paintings are seen in the Vaikunthanath Perumal Temple which is also over 1,000 years old.

It is a one-day excursion trip from Madras, but one can stay at the Traveller's Lodge.

Pondicherry: 167 kms. (104 miles) by road from Madras. The atmosphere of a sleepy French provincial town still prevails here. It was returned to India in 1954 after the French rule of 250 years. The main attraction of this place is the ashram of the philosopher Aurobindo Ghose.

Auroville 'the City of Dawn' is being built on the outskirts of Pondicherry. It will be the first 'World City' where any national can have a home.

Kanya Kumari or Cape Comorin: In Tamil Nadu, named from the temple of Kumari (an attribute of Parvati) is at the southern-most tip of the Indian peninsula. Here the Arabian sea and the Bay of Bengal meet the Indian Ocean. According to a legend Siva married the Goddess Parvati, daughter of King Himalaya on the rocks where the temple now stands. Offshore are the two rocks where Swami Vivekananda sat in meditation before he left for the United States. Now on them stands a huge and imposing memorial to the Swami.

Ootacamund: Ooty for short, is a hill station in Tamil Nadu. Over 2,286 m. (7,500 ft.) above sea-level, Ooty has a temperate climate. The rainfall rarely exceeds 1,016 mm. (40 in.) so that Ooty has excellent weather throughout the year, and during the season from April to June, it ranks amongst the gayest resorts in India. It reposes in an amphitheatre surrounded by four great hills. On the slopes of the hills are residential and office buildings. At the bottom of the valley enclosed by them is Ooty's artificial lake which could pass for a natural one. Conceived by Sullivan in 1823 and meant for irrigation, it turned out to be so lovely that it was preserved for its sheer beauty. The lake provides facilities for boating and fishing. West of this are the Wenlock Downs — an expanse of undulating springy turf embellished with woods and streams. Here are also the golf-links. These downs are the home country of the Ootacamund Hunt.

The terraced Botanical Gardens, a landmark in Ootacamund, were laid out by an expert from London's Kew Gardens, over a century ago. It has many rare trees and flowering plants. Ooty's flower, fruit and vegetable shows are attended by people from all over the Nilgiris, and here the fashionable jostling with the tribal folk present a colourful spectacle.

Kodaikanal : Famous hill station on the Palni Hills in Tamil Nadu, it is about 2,343 m. (7,688 ft.) above sea-level and has a temperate climate. The place affords plenty of scope for such recreations as walking, hiking, boating, fishing, hill climbing and golf. For the more adventurous there is big game hunting. Kodaikanal is the delight of the gardener and flowers are in bloom all the year round. The long winding road up the hill reminds one of the road up to Sorento in Italy. The greenery on the way is breathtaking. The different waterfalls make Kodaikanal a truly beautiful vacation spot. A man-made lake with a three-mile shady promenade around it is the popular place in the evenings. Kodaikanal has a hint of a place somewhere on the continent with chalet-type houses perched at random on the slopes of the Palni Hills.

Cochin : In Kerala it is one of the important ports on the west coast of India and, yet it is very different than a typical commercial port. Shady lagoons, wooded islands, ancient palaces and churches are encircled by canals of palm fringed shimmering backwaters. In fact Cochin is a cluster of islands and towns linked by bridges.

In Mattancheri is the community of Jews that came to Kerala as early as the 1st Century A.D.

A side trip down the west coast to Alleppey and then on to Quilon on the backwaters, offers breathtaking scenery. Lush vegetation and palm thatched villages are dotted with churches in Portuguese colonial style.

Trivandrum : The sea-side capital of Kerala is built like Rome, on hills. Many parks and lovely buildings with their gabled roofs, stand on low hillocks, while the restful valleys below are adorned with coconut groves. Trivandrum means "the place of the sacred snake Anant". The imposing temple of Sri Padmanabhaswami is dedicated to the Hindu God Vishnu, his image reclining on Sheshnag, the enormous hooded serpent.

A long drive from Alleppey to Trivandrum via Quilon has a very picturesque scenery along the west coast of India.

Mysore : It has a quiet charm so characteristic of a university town. For long the seat of an ancient ruling family, it has a good deal of colour and glamour. Besides palaces and gardens this place is famous for its ivory and sandalwood carvings and cast metal statuettes.

EXCURSIONS OUT OF MYSORE

Srirangapatna : The city of Lord Ranganath — takes its name from the imposing temple of Vishnu. This quiet island town on river Kaveri 16 kms. (10 miles) from Mysore, is reminiscent of many battles and past glories. On special occasions devout Hindus pass through this place to bathe in the river and to worship in this shrine.

Tipu Sultan, son of Hyder Ali, inherited a large dom from his father. Srirangapatna was his capital and became the centre of diplomatic manoeuvres against t rising power of the British. Tipu's summer palace in t midst of an exquisite garden on the river bank has lar panels with paintings depicting battle scenes and proce sions that recall episodes from his and his father's li The walls, pillars, arches and roofs are covered with a amazing variety of painted designs made gorgeous by liberal use of gold.

Sravana Belgola: Wedged in between two hills, whi rise abruptly from a flat plain, Sravana Belgola dominat the countryside for four miles with its 17·37 m. (57 f high Jain colossus of Lord Gomateswara, shaped out of single rock. This monolithic statue was carved in 983 A.

The town, a flourishing centre of Jain pilgrimag abounds in monuments that recall the achievements of bygone age. It is about 100 kms. (62 miles) from Mysore

Belur : 56·3 kms. (35 miles) from Sravana Belgola Belur, 800 year's ago a flourishing capital of the Hoysa kings. It's chief place of interest is the 12th century temp of Chenna Keshava, a manifestation of Vishnu. Its oute walls are decorated with an amazing variety of carving No description can do justice to the infinite patience an skill with which the sculptors fashioned the intricate deta of the scroll work, the niches, the elephants, the miniatu turrets and human figures and gods. The interior of th temple also displays a profusion of artistic skill lavishe on the pillars, ceilings, doorways, and bracket figures.

Halebid : 12·8 kms. (8 miles) from Belur, it was th metropolis of the ancient Hoysala rulers. The Lord Siv temple built about the same time as the Belur Temple ha every inch of its outer wall covered with friezes of grea variety. Remarkable for artistic skill are the sculpture elephants, horses, mythical beasts and birds, the scro work of infinite beauty and variety, and the big panels gods and goddesses of the Hindu pantheon running a round the walls.

Usually all these places are visited from Mysore in day and a half's trip with a night stop at the comfortabl Traveller's Lodge at Hassan.

Bijapur : Town in Karnataka State, capital of the ol Adilshahi Sultans of Bijapur, is rich with the remains palaces, mosques and tombs. Gol Gumaz the vast mausoleum of Mohammed Adil Shah (17th century) has a dom which is the second largest in the world with St. Peter at Rome bigger by merely 15 feet. The Whisperin Gallery inside the dome is so constructed that a so whisper at one point of the gallery can be heard mos distinctly at the opposite point. Jama Masjid of Bijapu is the greatest mosque in the south and also one of th finest in India.

GAME SANCTUARIES

Rangathittoo Bird Sanctuary : It is a mile awa from Srirangapatna and 14·4 kms. (9 miles) from Mysor Consisting of islets in the Kaveri river, it is inhabited by variety of storks. Primarily it is a breeding place for heron Also during the months of June to August other birds lik white ibis, Indian darter, cormorant and cattle egr breed here.

Accommodation : Travellers' Bungalow at Srirangapatna.

Bandipur Sanctuary : 78·8 kms. (49 miles) from Mysor on the road to Ooty is the game preserve of the form rulers of Karnataka State. This sanctuary now shelt herds of wild elephants, the Indian "bison", the spott deer, tiger, sloth bear and leopard. Tame elephants can hired for a ride around the sanctuary and it can be visit at any time of the year.

Accommodation : Three forest lodges and one travellers' bungalow.

Mudumalai Sanctuary : Adjacent to Bandipur is this sanctuary of 295 sq. kms. (114 sq. miles). Gaur, sambar, elephant, barking deer, chital, wild boar and occasionally a tiger or a leopard are seen here. A variety of birds are also found here. It is 96·5 kms. (60 miles) from Mysore.

Accommodation : Kargudi Rest House, Log House at Masinagudi ; Log House, Theppakadu.

Nagarhole Sanctuary : It is 228 kms. (142 miles) from Mysore via Mercara. Wild elephant, deer, panther, jackal and if one is lucky, the tiger can be spotted here. One can stay at the Forest Lodge.

Dandeli Sanctuary : It is well-known for elephant, bisons, panther, tiger, sambar and chital. The place abounds in excellent viewpoints and beauty spots. It is about 76 kms. (47 miles) from Dharwar by road which is connected with the nearest airport Belgaum by rail (121 kms. or 75 miles). The sanctuary, which is not accessible during the monsoon months of June to October covers an area of 207 sq. kms. (80 sq. miles).

Accommodation : Four forest bungalows at Dandeli.

Mahavir Abhayaranya: (wild life sanctuary) is situated on Goa-Karnataka border near Belgaum. The denizens include a large variety of big and small game and birds.

Periyar Sanctuary : One of the finest spots in the country, the wild life sanctuary at Thekkady in Kerala consists of an artificial lake of 26 sq. kms. (10 sq. miles), in a sanctuary of 673 sq. kms. (260 sq. miles). It is famous for its wild elephants besides Indian 'bison', sambar and stray panther and tiger. October to May are the best months for a visit. Motor boats take visitors about on the lake from where all these animals can be watched in comfort.

Accommodation : Lake Palace (Edapalayam) Thekkady ; Inspection Bungalow, Thekkady ; Forest Rest Houses at Thannikudy and Mannakkavala.

Vedanthangal Bird Sanctuary : 139·8 kms. (54 miles) south of Madras this small sanctuary breeds birds like, white ibis, night heron, spoon bill, open bill stork, Indian darter, grey heron, egret and two species of cormorant. Good months to visit are from November to February.

Accommodation : Rest House, Vedanthangal.

IN WESTERN REGION

Bombay : Arriving by sea or by air, one is struck by its natural setting — the far-away blue outlines of the majestic Western Ghats, the calm sea dotted with fishing boats, the palm-fringed beaches and on the outskirts smoke rising from a thousand chimneys in the mill area — a reminder that Bombay is one of the largest industrial cities of the East.

A cosmopolitan city, it owes its prosperity to the industry and enterprise of its population of six million. Bombay is a city of contrasts where the rich and the poor, the educated and the illiterate, the modern and the ancient co-habit. It is the largest city in India which has grown out of seven islands. Over the years the islands merged into one another by reclamation of land from the sea.

Excursions Around Bombay: About 38·8 kms. (15 miles) to the north of the city is Juhu, the palm-fringed natural beach, ideal for bathing. Juhu has good hotels, while shacks and villas along the beach can also be rented. Bombay's picturesque lake district is only an hour's drive from the city.

Some 15 kms. (6 miles) across the Bombay harbour, on a small island are the famous cave temples of Elephanta. Five in all, these cave temples date back to the eighth century. The main cave, dedicated to Siva, has huge sculptures and panels in relief. The most striking of the images is the Maheshmurti, a 6 m. (19 ft.) high, three headed bust hewn from a single rock representing the triple aspect of the Hindu Divinity.

There are a number of rock-cut monuments around Bombay. The more well-known among them are the Kanheri group of Buddhist caves and the series of shrines and monasteries known as Karla, Bhaja and Bedsa.

Aurangabad : In Maharashtra is where Emperor Aurangzeb built a replica of the Taj, Bibi-ka-Maqbara, a mausoleum for his wife. It has its own splendour and grace quite different than the Taj.

Close to Aurangabad is Daulatabad, "City of Fortune", built in the 14th century by a Sultan of Delhi, who was mad enough to try to move here the whole population of Delhi, which is some 1,813 kms. (700 miles) away.

Ajanta-Ellora : An hour and a half's flight from Bombay is Aurangabad, the starting point of a journey to two of the world's famous rock-cut temples — Ajanta and Ellora, the most remarkable monuments of their kind in the world. These monasteries and shrines have been hewn out of living rock by generations of sculptors. Ajanta, 170 kms. (66 miles) from Aurangabad, lies in a narrow gorge and contains a breathtaking picture gallery of frescoes. It is believed that these caves were cut in stages between the 2nd century B.C. to about 7th century A.D.

The Ellora caves situated 38·8 kms. (15 miles) from Aurangabad are excavated in the face of a hill and run north to south for a mile and a quarter. The crescent-shape hill has Buddhist, Hindu and Jain cave temples with a unique collection of sculptures. These caves are about a thousand years old.

Ahmedabad : Is the second largest textile centre in India. It contains numerous monuments of the fifteenth and sixteenth centuries, amongst them are the Shaking Minarets which are architectural wonders. Mahatma Gandhi's ashram is situated on the banks of the river Sabarmati. A 45 minutes Son-et-Lumiere show brings the ashram alive giving its history and an insight into the life of Mahatma Gandhi.

Goa : Cradled among the picturesque hills of the western ghats, its panoramic beauty, its smiling green valleys and its luxuriant tropical vegetation, its quaint houses and the ruins of old and historic buildings which bring ancient splendour to life, all combine to make it an earthly paradise. Once a Portuguese possession in India, Goa has numerous beautiful beaches, where one can sun-bathe, swim or just laze away in the vast expanse of dazzling white sands fringed with swaying palm trees.

The remnants of the Portuguese civilization can be seen in the old Goa. Among the still surviving ancient Portuguese churches is the Basilica and the Convent of St. Francis Xavier, built in the 16th century, where the body of St. Francis Xavier, patron saint of Goa, is enshrined in an exquisitely carved glass and silver-casket.

Goa is easily reached from Bombay by a 75 minutes flight by the Indian Airlines.

GAME SANCTUARIES/NATIONAL PARKS

Gir Forest : Roaming the dry open shrub land of the Gir Forest is a population of about 200 lions and cubs. The Gir is the last remaining habitat of the Asian lion The best time to see them is from December to May. Wild bear, panther, sambar, blue bull and deer of different varieties also live in this forest along with a number of varied birds. The nearest airport is Keshod, 86·9 kms. (54 miles) by road from Sassan Gir. Keshod is connected with Bombay by weekly air service during the season.

Accommodation : Forest Bungalow (Sassan Gir).

Borivli National Park : In Maharashtra State, Bombay.

Accommodation : Tourist Cabins.

Nal Sarovar Bird Sanctuary : In Gujarat State.

Accommodation : Holiday Home; Nal Sarovar Gypsy Huts.

Bondla Game Sanctuary : In Goa.

Accommodation : Forest Rest House.

Mollem Game Sanctuary : In Goa.

Accommodation : Forest Rest House.

Cottigao Game Sanctuary : In Goa.

Accommodation : Forest Rest House.

Nagzira Wild Life Sanctuary: In Maharashtra Sta

Accommodation : Rest House.

Tansa Lake Wild Life Sanctuary : In Maharasht State near Bombay.

Accommodation : Rest House, Tansa.

TOURIST TRAFFIC

Foreign Tourist Arrivals in India — 1977.

(These statistics relate to foreign tourists excludi nationals of Pakistan, Nepal and Bangladesh.)

A total of 640,422 foreign tourists visited India duri 1977 showing an increase of 19·9 per cent over the corre ponding figure for 1976 (533,951).

India has earned Rs. 2,830 million in 1977 as again Rs. 2,250 million in the previous year from Tourism.

ARECANUT INDUSTRY

ARECANUT is one of the most important commercial crops of India. It plays an important role in the religious, social and cultural life of our people irrespective of caste, creed or social status. Betel-nut (processed arecanut) varieties are numerous in India and can be broadly classified into unboiled, boiled and coloured varieties.

LOCATION OF THE INDUSTRY

Kerala, Karnataka and Assam account for nearly 90 per cent of the total area and production. It is also cultivated to a smaller extent in Meghalaya, West Bengal, Tamil Nadu, Maharashtra, Andhra Pradesh and Goa. The State-wise break-up of the area under arecanut cultivation is given below.

No. of Persons Employed : About four million.

Ranking in the World Market : India ranks first in the world both in the area and production of arecanut. The main arecanut producing countries in the world are India, Bangladesh, Sri Lanka and Malaysia.

Area Under Cultivation

(In thousand hectares)

	1973-74	1974-75	1975-76
Kerala	90·7	92·9	92·7
Karnataka	46·7	46·5	48·5
Assam	30·6	31·2	35·0
Meghalaya	6·0	6·0	6·0
Tamil Nadu	3·7	4·0	4·0
West Bengal	3·1	3·1	3·1
Maharashtra	2·1	2·1	2·1
Goa, Daman & Diu ..	1·4	1·4	1·4
Andhra Pradesh ..	0·2	0·2	0·2
Mizoram	—	—	0·1
Total Area	184·5	187·4	193·2

CONSUMPTION

National consumption for the last three years : 1973-74 : 168,994 tonnes; 1974-75: 168,875 tonnes; 1975-76: 165,540 tonnes.

The overall average per capita consumption of betel-nut in India is estimated at 0·33 kg. In Kerala it is 0·67 kg. and in Karnataka 0·66 kg. Among the cities, Delhi and Nagpur are two of the most important consuming markets.

EXPORTS

Arecanut is exported in small quantities to countri like Nepal, Kenya, Aden, Saudi Arabia. The quanti exported during 1974-75 — 525 tonnes valued at Rs. 5· million; during 1975-76 — 560 tonnes valued at Rs. 5· million; and during 1976-77 — 603 tonnes valued Rs. 6·63 million.

IMPORTS

A small quantity of 90 tonnes had to be imported 1971-72, 16 tonnes in 1972-73 and 4 tonnes in 1973-7

PRODUCTION

The State-wise break-up of the production is giv below :

(In thousand tonnes)

	1973-74	1974-75	1975-76
Karnataka	72·4	71·9	66·1
Kerala	55·9	57·2	57·2
Assam	31·2	32·0	33·5
Maharashtra	2·8	3·0	2·6
Tamil Nadu	1·9	1·8	3·3
Goa, Daman & Diu ..	0·8	0·8	1·4
West Bengal	1·4	1·4	0·8
Meghalaya	0·8	1·1	0·8
Andhra Pradesh ..	0·2	0·2	0·2
Mizoram	—	—	0·2
Total Production ..	167·4	169·4	166·1

GENERAL

Yield Per Hectare : About 820 kgs.

Research: Pilot trials conducted have shown that fat, alco hol, etc. can be extracted and products like chewing gum tooth paste etc. can be prepared from arecanut kernel. Th liquid obtained while boiling tender nuts ('Kali') can b utilised for tanning leather. Hard board, wrapping pape cushioning materials etc. can be made out of arecanu husk. Arecanut leaf-sheath can be used for making washes, packing cases, soles and heels in shoe making Arecanut husk is also an excellent poultry litter.

A new high-yielding variety "Mangala" has bee released from the Central Plantation Crops Researc Institute's Regional Station at Vittal, South Kanara fo cultivation. This variety, an introduction from Chi gives 70 per cent more yield than that of the best local ones, besides being an early bearer.

The Directorate of Arecanut and Spices Development of the Department of Agriculture, Government of India, is situated at 1/500, Cannanore Rd., Calicut 673005, Kerala.

Marketing : There are 26 co-operative marketing societies in Kerala, Karnataka, Tamil Nadu, Maharashtra and Goa and 21 regulated markets in Karnataka, 6 in Kerala and 2 in Goa for handling the crops.

Publications : 1. *Indian Arecanut, Spices & Cocoa* (Quarterly Journal) brought out by the Directorate of Arecanut and Spices Development, Calicut-673005, Kerala. 2. *Journal of Plantation Crops* (Half-yearly) brought out by Indian Society for Plantation Crops, Central Plantation Crops Research Institute, Kasargod 670124.

AUTOMOBILE INDUSTRY

UPON independence in 1947 the Government of India decided to stop assemblies of foreign cars and encourage local manufacturers.

The automobile industry depends upon its ancillaries for the manufacture and supply of over 50 per cent of the 5,000 components that go into making an automobile.

LOCATION OF THE INDUSTRY: Of the 32 manufacturers of automobiles, including tractors and two-cum-three wheelers, 12 are in Maharashtra, 5 in New Delhi, 5 in Tamil Nadu, 2 in Karnataka, 2 in Andhra Pradesh, with Gujarat, Haryana, Uttar Pradesh, Rajasthan, Punjab and West Bengal having one each. The location of the 168 automobile ancillary manufacturing units is: 63 in Maharashtra, 37 in Tamil Nadu, 25 in Delhi, 10 in West Bengal, 9 in Haryana, 7 in Gujarat, 7 in Karnataka, 5 in Punjab, 3 in Andhra Pradesh, 1 in Madhya Pradesh and 1 in Rajasthan.

RANKING IN WORLD MARKET

World Production 1976

Countries	Passenger Cars	Trucks & Buses	Total
United States..	8,497,893	2,999,498	11,497,391
Japan	5,027,792	2,813,655	7,841,447
West Germany	3,546,900	321,189	3,868,089*
France.. ..	2,979,559	423,156	3,402,715
U.S.S.R. ..	1,239,000	786,000	2,025,000
United Kingdom	1,333,449	372,057	1,705,506
Canada ..	1,137,313	502,799	1,640,112
Italy	1,471,308	119,369	1,590,677
Brazil ..	526,943	458,526	985,469
Spain	753,125	113,115	866,240
Australia ..	369,927	86,289	456,216
Sweden ..	317,126	50,654	367,780
Belgium ..	296,677	30,301	326,978
Mexico ..	212,549	112,430	324,979
Poland ..	228,900	81,500	310,400
Yugoslavia ..	192,801	23,270	216,071
Czechoslovakia	179,094	36,736	215,830
East Germany	168,000	37,000	205,000
Argentina ..	142,072	51,445	193,517
Rumania ..	60,700	46,000	106,000
Netherlands ..	74,223	12,338	86,561
India	38,297	46,761	85,058
Hungary ..	—	12,900	12,900
Austria ..	—	8,739	8,739
Switzerland ..	—	954	954
Portugal ..	—	683	683
Total ..	28,793,648	9,547,364	38,341,012

* Includes 245,548 micro-buses.

Source: Motor Vehicle Manufacturers' Association, U.S.A.

No. of Persons Employed : Total employment is around 3·5 million.

Capital Investment : Rs. 2,695 million. In the ancillary ndustry Rs. 800 million.

G. N. P. of the Industry : The value of the automobile industry's products and services is in the region of Rs. 24,000 million.

Licensed Capacity : At the end of 1975 was 98,000 commercial vehicles, 51,400 passenger cars, 20,000 jeeps and 966,000 other vehicles.

Defence Vehicles : The Defence establishments manufacture *Shaktiman* trucks through an agreement with M.A.N. of West Germany and *Nissan* 1-ton trucks and *Nissan* (Jonga) jeep type vehicles. The vehicle factory at Jabalpur was established in 1969 for the manufacture of 6,000 *Shaktiman* 3-tonne trucks and 7,200 *Nissan* trucks and petrol vehicles per annum. From the information available the current rate of production of *Nissan* trucks and *Nissan* petrol vehicles is 200 nos. and 100 nos. per month, respectively.

Production in India

	1975	1976	1977
Passenger Cars ..	23,070	31,556	38,277
Jeeps	8,162	6,741	9,594
Commercial vehicles ..	43,034	46,761	41,350
Motorcycles	69,732	73,158	67,019
Scooters	91,032	147,683	160,387
Three-wheelers ..	12,223	18,886	18,317
Mopeds	33,889	33,610	39,237
Tractors	30,353	35,002	34,627

Ancillary Products : There are more than 150 units in the recognised automobile ancillary sector producing all spare parts and components required except for a few items. The production of various categories of spare parts and components during 1974-75 and 1975-76 by value were as follows :

(Rs. in million)

	1974-75	1975-76
Engine parts	953	1,108
Electrical parts	162	186
Drive, transmission and steering parts	414	476
Suspension and braking parts	420	379
Equipment	72	76
Miscellaneous	196	298
Total	2,217	2,524

EXPORTS

(In Million Rs.)

Vehicles/Components	1974	1975	1976
Buses & trucks ..	24·4	85·9	119·4
Chassis with engines ..	11·0	39·2	59·7
Cars & Jeeps	3·8	8·4	2·8
2 & 3 Wheelers ..	7·9	8·6	33·2
Total: vehicles ..	47·1	142·1	215·1
Components	115·2	217·0	238·6

Value (Provisional) of exports (Rs. Million) under different categories for 1976-77 was as follows: cars, jeeps & commercial vehicles: 370·0; two & three wheelers: 35·0; tractors: 56·0; auto ancillaries: 358·0. (Total: 819·0).

Export Incentive: Cash assistance of 20 per cent for commercial vehicles.

Production of Diesel Engines & Earth-moving Equipment

	Production in nos.	
	1974-75	1975-76
Excavators/shovels	124	122
Crawler tractors	310	391
Rear dumpers	317	275
Motorised scrapers	17	20
Motor graders	25	30
Wheeler dozzers	77	91
Road rollers	1,347	539
Diesel engines 0–20 HP	94,849	116,183
Diesel engines 20–100 HP ..	21,734	22,347
Diesel engines 100–800 HP ..	2,800	2,950
Power tillers	2,019	2,400

GENERAL: Almost all vehicles produced in the country are 99 per cent indigenous.

Research, Development and Training: Research and testing facilities for automobiles and automobile ancillaries are available at the *Central Mechanical Engineering Research Institute*, Durgapur, the *Indian Institute of Science*, Bangalore 560012, the *National Test H* Alipore, and the *National Metallurgical L* Jamshedpur. (See chapter on Research for addresses *The Automotive Research Association of India*, P. No. 832, Deccan Gymkhana P.O., Pune 41 The ARAI is a CSIR-Industry research association set up by the Indian automotive industry. It provid test facilities for components and complete assemb of engines and vehicles. Presently a U.N.D.P. project being established with the main object to assist the sma and medium scale units in their design, development an research activities.

Director: B. S. V. Rao.

Automobile Manufacturers (See classified list of Trad & Professions).

Tractor Manufacturers
(See classified list of Trades and Professions).

Associations: 1. Association of Indian Automob Manufacturers, Army & Navy Bldg., M. Gandhi Rd Bombay-400023. 2. All India Automobile & Ancillar Industries Association, 80, A. Besant Rd., Bomba 400018. 3. Automotive Research Association of India P. Box 832, Deccan Gymkhana P.O., Pune 411004.

Publications: (1) 'Automobile Ancillaries and Ac cessories' (Bi-monthly), 20, Noble Chambers, Pars Bazar St., Bombay 400001. (2) 'Automobile News (monthly), Arun Chambers, J. Dadajee Rd., Bombay 400034. (3) 'Autoguide' (Monthly), 47, Shardhanan Marg, Delhi 110006. (4) 'Auto Spark' (Monthly), Vija Nivas, Juhu Lane, Bombay 400058. (5) 'Mobile' (Monthly 11B, Ramchandra Iyer St., Madras 600017. (6) 'Auto motive Abstracts' (monthly), P. Box 832, Deccan Gym khana P.O., Pune 411004.

Statewise Distribution of Motor Vehicles as on March 31, 1976.

States	Cars	Taxis	Jeeps	Buses	Goods vehicles	Misc.	Motor cycles & scooters	Auto rickshaws	Total
Maharashtra ..	126,052	18,408	16,473	17,632	75,872	20,014	145,651	12,799	432,90
Delhi	69,950	5,341	4,355	5,989	20,828	—	177,744	15,745	299,95
West Bengal ..	92,911	9,595	5,114	13,299	47,003	11,146	44,381	2,440	225,8
Gujarat	39,002	2,744	10,859	10,710	44,512	17,807	105,500	13,963	245,09
Karnataka ..	35,863	2,464	6,828	11,102	25,165	13,579	88,993	11,549	195,48
Andhra Pradesh ..	33,683	3,125	8,549	10,497	24,934	14,671	63,670	2,922	162,0
Tamil Nadu ..	53,149	9,689	6,559	11,816	24,671	4,236	70,441	3,914	184,47
Uttar Pradesh ..	34,411	2,609	8,041	12,694	34,334	3,289	85,607	1,358	182,34
Kerala	40,739	9,665	5,283	8,817	16,509	4,118	26,279	3,048	114,45
Madhya Pradesh.	17,967	1,198	7,077	7,712	24,843	8,628	55,388	3,314	126,12
Bihar	23,090	3,546	9,406	9,148	23,208	5,260	47,164	2,639	123,46
Punjab	15,217	1,358	1,667	6,083	15,555	2,899	67,305	2,569	112,65
Rajasthan	23,275	1,617	1,516	8,903	21,369	11,829	39,888	1,631	110,02
Assam	14,469.	1,154	7,140	3,556	17,166	7,964	11,622	545	63,61
Orissa	5,834	2,063	6,168	2,849	11,622	2,588	18,065	715	[illegible]
Jammu & Kashmir	3,844	604	1,178	2,497	5,757	452	5,669	364	[illegible]
Goa, Daman & Diu	4,580	81	140	2,080	5,931	—	6,261	135	19,2
Himachal Pradesh	809	220	917	982	2,663	308	3,498	2	[illegible]
Manipur & Tripura	755	259	2,088	820	3,000	127	1,144	38	[illegible]
Chandigarh ..	1,457	54	139	176	51	300	4,518	522	[illegible]
Pondicherry ..	1,740	92	109	197	346	515	3,878	104	[illegible]
Nagaland	677	38	690	56	688	—	1,333	20	[illegible]
Andaman & Nicobar ..	191	42	162	105	416	130	530	2	[illegible]
Dadra & Nagar Haveli	84	3	23	—	32	17	224	153	[illegible]
Grand Total ..	629,749	75,969	110,481	147,720	446,175	129,877	1,074,693	[illegible]	[illegible]

[illegible] Jeeps).

CASHEW-NUT INDUSTRY

BRIEF HISTORY

THE cashew tree (Anacardium Occidentale), a native of South America was introduced into India by the Portuguese who planted the first saplings on the west coast during the sixteenth or seventeenth century to check soil erosion. Finding a congenial home it grew extensively and is known as 'Feringi Mango' (Feringi meaning Portuguese).

Despite its early introduction the value of the cashew-nut was discovered only in the nineteen twenties when some enterprising farmers sent the nut abroad. There was an immediate demand for the cashew kernel in raw or roasted form which marked the beginning of the cashew industry.

The cashew "apple" when ripe, is juicy and sweet and rich in vitamin C. The juice is used in the preparation of syrup, squash, jam, candy and wine.

The cashew-nut shell liquid is a brown viscous oil and is an important raw material in the manufacture of insulating varnishes, paints, typewriter rolls, oil and acid proof cold setting cements, industrial flooring tiles, automobile brake-linings and also in the plastic industry.

Area Under Cashew : The Kerala State Co-op. Marketing Federation announced in February, 1977, it would extend cashew cultivation to another 28,000 hectares by providing long-term loans through land mortgage banks. At present about 100,000 hectares are under cashew cultivation with an annual yield of about 150,000 tonnes. The federation also announced a proposal to organise cashew apple processing units in Kerala. The state was losing about Rs. 200 million a year by wasting the cashew apple.

LOCATION OF THE INDUSTRY

Out of about 300 processing factories in the country about 200 are in Kerala State and the others in Tamil Nadu, Karnataka, Andhra Pradesh and Maharashtra.

Public Sector : The Kerala State Cashew Development Corpn. Ltd., Quilon, opened its first factory in July, 1970 by taking over a factory owned privately. By the end of 1974, the number of factories taken over increased to 34.

Ranking in the World Market : India accounts for about 60-65 per cent of the world export of cashew kernels.

PRODUCTION AND CONSUMPTION

The yearly local production of raw cashew nuts, according to the Directorate of Cashew-nut Development, is 140,000 tonnes. The trade estimate of availability of raw nuts for processing is, however, placed at around 100,000 tonnes.

IMPORTS

The domestic supply of raw nuts is inadequate to meet the total requirements of the processing factories. The shortfall is made-up by importing raw nuts. This is being done by the Cashew Corporation of India Ltd., which was set up as a subsidiary of State Trading Corporation.

Import of raw cashew-nuts from East African and West African countries and Madagascar during 1976-77 amounted to 75,195 tonnes valued at Rs. 183·4 million.

EXPORTS

A **Cashew Export Promotion Council** (Chittoor Rd., Ernakulam South, Cochin 682016, Kerala), was set up in 1960.

India used to monopolise the exports of processed cashew kernels until Tanzania, Mozambique and Kenya set up their own units.

Export Duty : There is a one per cent *ad valorem* cess on exports of cashew kernels. The tariff value for cashew kernels fixed for this purpose for the year 1976-77 (July-June) is Rs. 1,500 per quintal.

Export of Cashew Kernels : Cashew kernel exports fetched Rs. 1,432·2 million in 1977, an increase of about 29 per cent over the earnings in 1976. Quantitatively, the export was less by about 31 per cent because of the lower availability of imported raw cashewnuts.

(Quantity in Tonnes)

Countries	1974-75	1975-76	1976-77
U.S.A.	10,720	22,192	17,506
U.S.S.R.	39,712	14,436	15,638
U.K.	1,005	899	887
East Germany	587	266	658
Australia	2,143	2,206	2,232
Canada	3,448	3,528	3,436
France	279	439	256
Japan	1,808	3,862	5,202
Netherlands	1,336	1,491	1,635
Hong Kong	896	614	722
West Germany	663	888	1,020
Czechoslovakia ..	502	116	15
Lebanon	160	121	5
Belgium	150	132	176
Malaysia & Singapore ..	363	475	484
New Zealand	270	278	187
Iran	125	226	187
Poland	23	—	—
Sweden	10	—	12
Italy	23	29	25
Spain	—	8	18
Kuwait	289	452	592
Switzerland	93	108	123
Bahrain	82	233	195
Total exports including other countries ..	65,025	53,640	51,435
Value in Rs. million ..	1,181	961	1,058

Export of Cashew-nut Shell Liquid

(Tonnes)

Countries	1974-75	1975-76	1976-77
U.K.	242	2,032	2,236
U.S.A.	1,373	1,167	203
Japan	1,631	2,526	906
Australia	1	125	150
Netherlands ..	21	82	108
South Korea ..	238	170	360
Total exports including other countries ..	6,696	6,730	4,675
Value in Rs. Million	16·7	14·9	10·5

GENERAL : According to the study made by GATT, a good average crop from a mature plantation tree is around 10 kgs. in East Africa and 30 kgs. in India.

In Africa, the average yield of kernels is about 21 to 24 per cent of raw nut weight, while in India it is slightly higher. Indian processors claim to be able to get upto 70 per cent whole kernels, while the mechanical processing plants in Africa record upto 65 per cent.

The poor technology in the cashew industry in Ke in which the operations are done manually accounts for investment per worker being as low as about Rs. Over 90 per cent of the workers are women.

Publication : 'Cashew Bulletin' (monthly) and ' Cashew Journal' (quarterly), C/o Cashew Export tion Council, Chittoor Rd., Ernakulam South, 682016.

CEMENT INDUSTRY

BRIEF HISTORY

CEMENT, though it may not have been known by that name, is an ancient building material. Evidence of its use is believed to have been found in the Indus civilisation of Mohen-jo-daro. The Greeks are also known to have made extensive use of it, but it is to the Romans that the credit must go for having evolved concrete from cement.

Although cement was first manufactured in India near Madras in 1904, it was not until 1914 that the foundations of a stable Indian cement industry were really laid. In October 1914, the first bag of cement was packed at Porbandar by the Indian Cement Company Ltd. (Agents: Tata Sons & Co.). This company then had a capacity of only 1,000 tonnes. Today there are 56 units in the country and the capacity is 21·60 million tonnes.

LOCATION OF THE INDUSTRY

The State-wise break-up of the units is as follows :

Andhra Pradesh 6, Assam 1, Bihar 7, Gujarat 6, Haryana 2, Jammu & Kashmir 1, Karnataka 6, Kerala 1, Madhya Pradesh 6, Maharashtra 2, Orissa 2, Rajasthan 5, Tamil Nadu 7, Uttar Pradesh 2, West Bengal 1 and Meghalaya 1.

Public Sector : Out of 56 units 10 are in the public sector. The break-up of these is as follows :

Assam : Cement Corpn. of India Ltd., Bokajan ; *Jammu & Kashmir :* J. & K. Minerals Ltd. ; *Karnataka :* Visvesvaraya Iron & Steel Ltd. and The Cement Corpn. of India Ltd., Kurkunta ; *Madhya Pradesh :* The Cement Corporation of India Ltd., Mandhar ; *Meghalaya :* Mawmluh-Cherra Cements Ltd. ; *Orissa :* The Industrial Development Corporation of Orissa Ltd. ; Hira Cement Works ; *Tamil Nadu :* Tamil Nad Cements ; *Uttar Pradesh :* U.P. State Cement Corporation Ltd. (factories at Churk and Dalla).

Expansion : Production capacity is expected to increase to 23 million tonnes by 1978-79.

No. of Persons Employed : About 90,000 including workers in quarries.

Contribution to Gross National Product : In 1977 it was Rs. 3,072 million (Approx.).

Ranking in the World Market (1975) : India is the 8th largest cement producer in the world. The first seven countries are the USSR, USA, Japan, West Germany, Italy, France and U.K.

PRODUCTION AND CONSUMPTION: In 1977 production was 19·1 million tonnes as against 18·6 million tonnes in 1976. Capacity utilisation in 1977 was 90·5 per cent as against 90·1 in 1976.

Regional Anomaly : The cement industry faces a peculiar problem of transport. Cement factories are largely concentrated in the southern and western regions of the country cause high begrade limestone is more abundantly available there, whilst the demand for cement is higher in the northern and eastern regions.

Capacity and Production of Cement

(million to

		South	West	East	North	To
1974	a.	7·5	5·6	3·3	3·4	[illegible]
	b.	5·3	4·5	2·3	2·2	[illegible]
	c.	3·6	3·7	2·4	4·0	[illegible]
1975	a.	7·4	6·1	3·6	3·7	20·
	b.	6·0	5·1	2·6	2·5	16·
	c.	3·7	3·8	3·0	4·3	[illegible]
1976	a.	7·4	6·2	3·9	3·8	21·
	b.	7·1	5·8	3·0	2·7	18·
	c.	4·7	4·3	3·3	5·4	17

a — capacity ; b — production ; c — consumption.

The northern region contributes 14·5 per cent to total production and consumes 30·6 per cent. The region produces 16·1 per cent and consumes 18·6 cent. The corresponding figures for the western regi 31·2 per cent production and 24·2 per cent consu and in the southern region 38·2 per cent is produced 26·6 per cent consumed.

Production of Cement in India & Other Countri in 1975 (in million tonnes). U.S.S.R. : 121·9 ; Jap 65·5 ; U.S.A.: 58·3 ; Italy : 34·2 ; West Germany : 3 France : 29·3 ; U.K. : 16·8, India : 16·2.

Per Capita Consumption (in kgs.): In terms of capita consumption India ranks 12th in the world.

Belgium : 703 ; Italy : 613 ; Japan : 591 ; France : West Germany : 542 ; USSR : 479 ; Canada : 427 ; Swe 380 ; U.K. 366 ; U.S.A.: 273 ; Netherlands : 266 ; India :

EXPORTS

Year			Quantity in tonnes	Value Rs.
1972-73	..	..	206,692	27,937,
1973-74	..	..	130,245	21,641,
1974-75	..	..	301,770	85,91
1975-76	..	..	385,259	142.320,00
1976-77	..	..	771,000	300,000,

IMPORT: Due to shortage of cement in the export of cement came practically to a standstill from 1977 and Government have started importing cement January 1978 to meet the growing internal demand.

GENERAL: In 1977 coal and wagon supply to Industry was satisfactory. However, power shortag an important external constraint on cement prod

New Projects : The Cement Corporation of India three projects under construction located at Bokajan Assam, at Rajbaon in Himachal Pradesh and at in Madhya Pradesh, the last being expansion of existing unit. The Bokajan unit started production at end of 1976.

The Corporation took up four new projects, in 1977. Three for the manufacture of Portland cement at Adilabad, Tendur and Yerraguntla in Andhra Pradesh and one for the manufacture of blast furnace slag cement at Akaltara in Madhya Pradesh with a capacity of 400,000 tonnes each.

The Government has also approved a proposal for the setting up of a new plant at Neemuch in Madhya Pradesh having a capacity of 400,000 tonnes.

Mini Plants : At the first meeting of the newly constituted Development Council for the Cement Industry held on 5th January, 1978, the Union Ministry of Industry, announced certain concessions to encourage speedy installation of mini cement plants. The Cement Research Institute and the Regional Research Laboratory, Jorhat, are offering vertical shaft technology. Indigenous technology for putting up of mini cement plants based on Rotary Kiln is also available. Besides efforts are made to obtain German technology which is said to be different and claims several advantages.

Demand : A Planning Commission study group had re-estimated in September, 1976, that the annual domestic demand for cement would be between 19·33 million and 22·40 million tonnes. Adding the export obligations of about 1·5 million tonnes the total demand was likely to be between 20·83 million and 23·90 million tonnes in 1978–79.

Training and Research : Industry has set up a research institute called the *Cement Research Institute of India* at M-10, South Extension II, Ring Rd., New Delhi 110016. A well equipped laboratory project with training facilities for scientists is available at Faridabad, 32 kms. from New Delhi. Basic research in cement technology is being undertaken at the laboratory.

Ten Largest Units :

The Associated Cement Cos., Ltd., 121, Maharshi Karve Rd., Bombay 400020.

The India Cements Ltd., 4th Floor, Dhun Bldg., 175/1, Mount Rd., Madras 600002.

Birla Jute Mfg. Co. Ltd., Satna Cement Works, Satna 485001, Madhya Pradesh.

U.P. State Cement Corpn. Ltd., Churk, Mirzapur Dist., Uttar Pradesh.

The Jaipur Udyog Ltd., P.O. Ram Krishna Lok, Sawai-Madhopur (W. Rly.), Rajasthan 322001.

Shree Digvijay Cement Co. Ltd., Shree Niwas House, Hazarimal Somani Marg, Bombay 400001.

Saurashtra Cement & Chemical Industries Ltd., Ranavav 2, Gujarat.

The Cement Corpn. of India Ltd. (Govt. Undertaking), Herald House, 5-A, Bahadur Shah Zafar Marg, New Delhi 110002.

Century Cement (A Division of Century Chemical Works), P.O. Neora, 493114 Raipur.,

Dalmia Cement (Bharat) Ltd., Dalmiapuram, Tamil Nadu.

Publication : 'Cement' (Quarterly Journal), C/o Cement Manufacturers' Association, Express Bldg., Churchgate, Bombay 400 020.

COCOA INDUSTRY

Brief History : Originally believed to be growing in tropical America, the Cacao tree (Theobroma cacao), was planted by the French in their possessions in India in the 1670s. But it was not commercially exploited till the last decade.

Location of Plantations: Cocoa (Theobroma cacao) is grown in an area of about 8,000 hectares mainly as a mixed crop in coconut and arecanut gardens. It is mainly grown in Kerala followed by Karnataka and Tamil Nadu. The estimated production of cocoa beans during 1977 was about 400 tonnes.

Consumption: Demand for cocoa products is partly met by import of beans. The annual average import of cocoa beans during the last few years is 400 to 1,100 tonnes. Cocoa is re-exported as cocoa powder, chocolates, cocoa butter etc. to the Middle East, Nepal, U.K., Indonesia and Singapore.

The present grinding capacity in India is about 10,000 tonnes, hence it is proposed to bring 40,000 hectares under cocoa cultivation. Though there are two popular varieties — Criollo and Forestero — only the latter has been recommended for cultivation in India because of its wider adaptability and better performance.

Development schemes for covering large areas under cocoa are being implemented by Kerala Agriculture Department and Karnataka Forest Plantation Corporation. Cocoa is also grown in small areas in Tamil Nadu, Andhra Pradesh, Maharashtra and Goa.

Compared to other plantation crops, cocoa bears early and yields high economic returns.

Exports: During 1975-76 India exported cocoa products weighing about 505 tonnes valued at Rs. 51·5 million while corresponding figures for 1974-75 were 582 tonnes valued at Rs. 45·5 million.

Imports: In 1975-76 India imported about 677 tonnes of cocoa beans and cocoa products valued at Rs. 85·9 million while during 1974-75 the import amounted to 468 tonnes valued at Rs. 61 million.

GENERAL :

Development : The Government of India has constituted the *Indian Arecanut and Cocoa Development Council*, made up of State and Central government officials and representatives of growers, traders and farm workers. It periodically reviews the ongoing development work and advises the Government of India on future development programmes. The development programmes are implemented through the *Directorate of Arecanut & Spices Development*, functioning at 1/500, *Cannanore Road*, *Calicut* 673005, *Kerala*.

The important development measures undertaken include establishment and maintenance of progeny orchards of high yielding cocoa trees and large scale production and distribution of quality seedlings.

Research : The agronomic research work on cocoa is undertaken by the Central Plantation Crops Research Institute, Kasargod, and by its regional stations and research centres. The Central Food Technological Research Institute, Mysore, carries out the research work on the processing of cocoa beans and finished products.

Processing firms : The following are the important processing firms :

1. M/s. Cadbury India Ltd., Cadbury House, Bhulabhai Desai Road, Bombay-400026; 2. M/s. Satho Biscuits and Chocolate Co., Bhavanipeth, Pune 411002; 3. Kaira District Co-operative Milk Producers Union Ltd., Anand 388001; 4. Dr. Writers Chocolates and Canning Co., Bhavanishankar Road, Dadar, Bombay 400028.

Publications: 1. *Indian Arecanut, Spices & Cocoa Journal* (Quarterly), Directorate of Arecanut and Spices Development, Calicut 673005, Kerala.

2. *Journal of Plantation Crops* (Half-yearly), Indian Society for Plantation Crops, Central Plantation Crops Research Instt., Kasargod 670124.

COFFEE INDUSTRY

BRIEF HISTORY

About 400 years ago coffee became established as a beverage in Arabia from where it eventually came to Europe and to London in 1652.

The plant is believed to have been introduced in India by a Muslim saint who came from Mecca and made his home in Karnataka.

The coffee plant usually reaches heights ranging from 4·57 to 6·09 metres. The fruit is red and contains two interlinked seeds which when roasted and ground, produces the coffee powder.

LOCATION OF THE INDUSTRY

Coffee Arabica and Coffee Canephora (Robusta) are the two types of coffee grown on a commercial scale in India.

The total area under coffee is 171,535 hectares — hectares Arabica and 73,641 hectares Robusta.

State-wise hectarage : Karnataka : 101,676 ; 40,502 ; Tamil Nadu : 28,068 ; Andhra Pradesh : 1 Assam : 174 ; Others (Orissa, West Bengal and And 92.

Of 80,587 coffee estates, 45,334 are registered and 35,2 unregistered. Of these 77,015 are small holdings of hectares and below. Karnataka has in all 28,713

No. of Persons Employed: About 250,000.

Ranking in the World Market: Indian contributes about 1·5 to 2 per cent of the world trade coffee. In 1976 the total world exports were 3,562, tonnes of coffee of which India exported 48,712 valued at Rs. 987·6 million.

PRODUCTION & CONSUMPTION

Production and Consumption of Coffee in India — 1974-75 to 1976-77

Season	National Production (in tonnes)			Calendar Year	Internal Consumption (in tonnes)		
	Arabica	Robusta	Total		Arabica	Robusta	Total
1974–75*	62,646	29,860	92,506	1974	19,100	18,462	37,562
1975–76*	49,700	34,300	84,000	1975	19,050	17,830	36,880
1976–77*	65,000	37,500	102,500	1976	20,786	16,916	37,702

* Latest revised estimates.

State-wise Production of Coffee 1973-74 to 1976-77 (in Tonnes)

Season	Tamil Nadu			Karnataka			Kerala			All India Total**		
	Arabica	Robusta	Total	Arabica	Robusta	Total	Arabica	Robusta	Total	Arabica	Robusta	Total
1973-74 ..	6,659	2,043	8,702	35,895	24,806	60,701	1,126	15,376	16,502	44,066	42,322	86,388
1974-75 ..	6,592	1,497	8,089	54,461	18,447	72,908	1,186	9,859	11,045	62,464	29,860	92,506
1975-76* ..	6,690	1,650	8,340	41,685	19,390	61,075	1,135	13,260	14,395	49,700	34,300	84,000
1976-77* ..	7,285	1,545	8,830	56,035	22,340	78,375	1,415	13,615	15,030	65,000	37,500	102,5

* Estimates subject to revision. ** Inclusive of production of other Indian States not mentioned separately.

Per Capita Consumption (in kg.) : 1972: 0·0666 ; 1973: 0·0686 ; 1974 : 0·0641 ; 1975 : 0·0617 ; 1976 : 0·0619.

EXPORTS

Indian coffee is exported to U.S.A., Canada, Europe, Australia and New Zealand.

Exports of coffee for fiscal years 1974-75 to 1977-78 based on the data of the Director-General of Commercial Intelligence and Statistics, Calcutta, is given in the table below :

Fiscal Year	Fifth Plan Target	Quantity of Coffee Exported (In tonnes)	Value Realised (In Rs. million)
1974–75	55,500	49,467	513
1975–76	58,264	59,386	666
1976–77	61,291	47,522	1,140
1977-78 .. .. (April to Dec. 1977)	63,930	45,589	1,942

Export Duty : The export duty on coffee per since June 1977 was as under :

In Sept. 1977 — Hike in export duty from Rs. to Rs. 1,300.

In Oct. 1977 — Cut in export duty from Rs. 1, Rs. 700.

Export Promotion Council : Coffee Board, Vid Veedhi, Bangalore 560001. The Coffee Board has recognised as an **Export House** with effect from by the Government of India.

GENERAL

India produces about 6,000 to 7,000 tonnes of roots per year which yields about 4,000 to 4,500 of chicory powder. Cultivation is concentrated in C tore and Nilgiri districts of Tamil Nadu, J Gujarat and Munnar and Vattavada in Kerala.

Publication : "Coffee Statistics" is an annual tion brought out by the Market Research and S Bureau of the Coffee Board.

COIR INDUSTRY

BRIEF HISTORY

THE word 'coir' has an historical background. The fact that it is derived from the Malayalam word 'kayar' meaning cord, shows that this material first became known as a product of the Malabar coast. As early as the 11th century A.D. Arab writers have mentioned coir and referred to the uses of this material as ship's cables and rigging.

However, it was in England that coir was first put to practical use. About 125 years ago three partners of a London carpet firm registered their patents for the manufacture of coir fibre into various fabrics suitable for floor coverings.

The development of the coir industry in India began in 1859.

LOCATION OF THE INDUSTRY

It is mainly confined to the coastal strip of Kerala and other coconut producing States.

State-wise break-up is as follows :

Kerala : Husk Retters 23,000 units, Spindle Spinning 25,000 units, Hand Spinning 85,000 units, Products Mfg. 1,994 units, Powerloom Matting 3 units, Rope Making 62 units, Defibering 10 units, Rubberised Coir 3 units. *Karnataka :* Fibre Extraction 59 units. *Tamil Nadu :* Rope Making 926 units, Yarn Spinning 710 units, Fibre Extraction 14 units, Rubberised Coir 1 unit. *Andhra Pradesh:* Fibre Extraction 4 units, Production Centres 7 units. *Maharashtra :* Departmental Coir Factory 1 unit, Fibre Extraction 2 units, Production Centres 8 units ; *Orissa :* Fibre Extraction 1 unit, Production Centres 5 units. *West Bengal :* Fibre Extraction 2 units, Rubberised Coir/Curling 1 unit, Rope Making 12 units. *Gujarat :* Production Centres 4 units. *Goa, Daman & Diu :* Production Centres 685 units, Defibering Centres 3 units ; *Laccadive, Minicoy and Amindivi Islands :* Defibering Centres 1 unit (Exclude hand spinning units). *Pondicherry :* Fibre Extraction 1 unit, Production Centres 2 units. *Andaman & Nicobar:* Production Centre 1 unit.

Public Sector : Hindustan Coir Ltd. at Kalavoor near Alleppey in Kerala is the only factory in the public sector.

No. of Persons Employed: About 450,000.

Ranking in the World Market: The total volume of coir entering the world trade is about 152,100 tonnes. Raw fibre alone accounts for 101,400 tonnes while coir yarn and processed coir goods account for only 50,700 tonnes. India's share is as follows : coir yarn 95 per cent, coir manufactures 55 per cent, coir cordages and ropes 95 per cent.

PRODUCTION AND CONSUMPTION

India and Sri Lanka are the only two countries where widespread commercial production is undertaken even though coconuts are grown in abundance elsewhere.

Estimated annual output of coir in principal producing countries is as follows :

Country	*Thousand tonnes*
India	60·0
Sri Lanka	122·0
Tanzania	8·5
Bangladesh	5·8
Thailand	4·0
Philippines	2·5
Burma	2·2
Kenya	2·0
Seychelles	1·9
Malaysia	1·5
Mozambique	1·0
Morocco	0·5
Total	311·9

Of the estimated production of coir fibre at 160,000 tonnes during 1976-77, white fibre (retted fibre) accounted for 141,000 tonnes and brown fibre (unretted fibre) accounted for 19,000 tonnes.

The All-India estimated annual production of coir and coir products of different types are : coir fibre : 160,000 tonnes ; coir yarn : 128,000 tonnes ; coir products : 29,000 tonnes ; coir ropes : 17,000 tonnes ; curled coir : 3,000 tonnes ; rubberised coir goods : 1,000 tonnes.

Q = Quantity in tonnes. **EXPORT OF COIR AND COIR PRODUCTS** V = Value in Rs. million

S. No.	Commodity	1974-75		1975-76		1976-77	
		Q.	V.	Q.	V.	Q.	V.
1.	Coir Fibre	161	0·30	266	0·69	134	0·29
2.	Coir Yarn	24,401	82·67	22,970	100·22	26,567	105·23
3.	Coir Mats	11,322	64·65	7,488	56·25	9,582	73·52
4.	Coir Mattings, Rugs & Carpets	5,049	26·33	5,276	33·71	7,020	46·20
5.	Coir Rope	138	0·35	269	0·67	185	0·54
6.	Curled Coir	762	1·04	1,014	1·95	868	1·95
7.	Rubberised Coir Goods	1	0·02	—	0·03	1	0·03
	Total	41,834	175·36	37,284	193·52	44,357	227·76

Sources : Daily/Weekly lists of exports issued by the Customs Authorities.

Consumption of coir and coir goods 1976-77

Commodity	(Quantity in tonnes)
Coir Fibre	4,866
Coir Yarn	63,433
Coir Products	12,398
Coir Rope	16,815
Curled Coir	1,632
Rubberised Coir Goods	1,000
Total :	100,144

GENERAL

Coir Board (Address : Post Box No. 1752, Ernakulam South, Cochin-682016) was established in 1953 and assists with development, manufacture, sale, export and technological research.

Training and Research : The Central Coir Research Institute in Kalavoor, Alleppey, Kerala carries out fundamental and applied research to improve existing products and find new uses of coir.

The Board has also set up a **National Coir Training and Design Centre** at Alleppey to impart training in techniques of coir production. An extension service covering coir extraction, processing and manufacture especially spinning, dyeing and weaving was also started.

Ten Largest Units : 1. William Goodacre & (I) Ltd., Alleppey 688001 ; 2. Alleppey Company Ltd., Alleppey 688001 ; 3. Indian Coir Manufg. Co., Al 688001 ; 4. Aspinwall & Co., (Travancore) Ltd., Al 688001 ; 5. N. C. John & Sons (Pvt.) Ltd., Alleppey 68 6. Kerala Coir Mats & Matting Co-operative Society Ltd. Alleppey 688001 ; 7. Shertallai Coir Mats & Matting Co-operative Society Ltd., Shertallai 688524 ; 8. Charankatt Coir Manufg. Co. (Pvt.) Ltd., Shertallai 688524 ; 9. F Fibres & Yarns Trdg. Co., Cochin 682001 ; 10. Travancor Mats & Matting Co., Shertallai 688524.

Coconuts : World area under coconut culti has been estimated at 7,457,000 hectares and the annual world production of coconuts is reckoned 29,901·2 million nuts. Philippines is the largest pro cer of coconuts in the world. India stands third in the list, second being Indonesia.

India produced 6,121·7 million nuts in 1975-76 on 1·1 million hectares with Kerala alone producing 3,734·3 million coconuts. Tamil Nadu was the second highest with 1,120·7 million followed by Karnataka 739·1 million and Andhra Pradesh 167·2 million.

In India, it is estimated that out of 6,121·7 mill husks only 50 to 55 per cent is utilised by the indu and the rest is wasted.

Publication : "Coir Quarterly", "Coir News", "Monthly Bulletin of Exports of Coir and Coir Products" and an annual brochure " India's Production, Exports and Internal Consumption of Coir and Coir Goods" are all published by the Coir Board.

COTTON AND COTTON TEXTILE INDUSTRY

COTTON

BRIEF HISTORY: The writings of Marco Polo in the 13th century A.D. and of Tavernier in the 17th century stand testimony to the degree of excellence and perfection achieved by the textile industry in India.

Originally, all cotton cultivated in India grew on the perennial type of plant known as G. Arborium Var Neglectum, which was of Forma Bengalenses in north and western India and of Forma Indicum in central and south India. It is believed that the ' webs of the woven wind '—the world famous Dacca muslin was made from Forma Bengalenses.

Until about the middle of the 18th century Indian textiles reigned supreme in foreign markets. But during the Industrial Revolution in the West, Indian cloth began to lose its overseas market. Realising the significance of the revolution the East India Company changed its role of an exporter of cloth to an exporter of cotton and encouraged a wider cultivation of cotton in India. Thus began the cultivation of cotton as a commercial crop.

AREA UNDER CULTIVATION

India has the largest area in the world under cotton cultivation, which is more than one fourth of the total world acreage.

The area ('000 hectares) under cotton cultivation during last three years was : 1974-75 : 7,561·8 ; 1975-76 : 7,460·5 ; 1976-77 : 6,634·0.

PRODUCTION

India's cotton production suffered a marked set-back in the 1976–77 season, the latest estimate being 5·95 million bales (of 170 kgs. each), as compared with 6·65 million bales in 1975–76. With a carry over of 1·43 million bales and imports amounting to 1·08 million bales, the tota supply in the cotton season 1976-77 worked out to 8·4 million bales.

The prospects of a tight supply position began to manifest itself from March–April 1976. The revised estimates of the crop showed a fall larger than expected. The cotton season 1976-77 opened with the highest level of cotton prices recorded ever.

The production ('000 bales of 170 kgs. each) of cotton during last three years was : 1974-75 : 7,156 ; 1975-76 : 6,101 ; 1976-77 : 5,950.

(Refer to the chapter on Food & 'Agriculture' for the state-wise break-up of production.)

EXPORTS OF COTTON

Year	'000 bales of 170 kgs. each	Value Rs. million
1972–73	184	183·91
1973–74	366	399·70
1974–75	97	122·03
1975–76	427	582·30

IMPORTS & CONSUMPTION

Year*	Imports '000 bales†	Value Rs. million	Consumption '000 b		
			Indian	Foreign	T
1973–74 ..	188	373·03	6,984	294	7,27
1974–75 ..	115	249·80	6,915	195	7,11
1975–76 ..	166	261·50	7,331	214	7,
1976–77 ..	1,080	N.A.	6,361	389	6,

* Cotton year ending August 31. † Bales of 170 kgs

N.A. Not available.

GENERAL

Yield Per Hectare: In spite of India having the largest area under cotton cultivation, the production accounts for less than one tenth of the world cotton output. Indian production has been on an average one bale (170 kgs.) per hectare, against 4 bales produced in Egypt.

The Hybrid-4 is credited with a record yield of 8,700 kgs. of *kapas* per hectare in Bellary district of Karnataka. The average yield from this strain is placed at 3,500 to 4,000 kgs. per hectare, while the average yield per hectare of other varieties is 925 kgs. of *kapas* in irrigated areas and 250 kgs. in non-irrigated areas.

Cotton Corporation of India Ltd.: Refer to the chapter on 'Govt. of India Undertakings'.

Research: Established in 1924 the **Cotton Technological Research Laboratory** at Adenwala Road, Matunga, Bombay 400019, offers facilities for fibre testing and spinning quality evolution of cotton with the result that a large number of improved varieties have been evolved and extended for commercial cultivation.

The laboratory also offers training in cotton technology to sponsored candidates from the textile industry.

Regional Cotton Research Station at Coimbatore, Tamil Nadu, of the Indian Agricultural Research Institute does research on the plant breeding aspect of cotton.

COTTON YIELD IN SELECTED COUNTRIES

(kgs. per hectare)

Country	Average yield 1973–74 to 1975–76
U.S.A.	528
U.S.S.R.	889
Brazil	225
Mexico	822
Egypt	707
Peru	584
China	509
Sudan	387
Syria	749
Pakistan	315
India	157
World Average (including others)	411

Besides this laboratory numerous other agricultural universities conduct research on cotton.

COTTON TEXTILES

Brief History: The cotton textile industry was the base on which Indian industrialisation was built more than a hundred years ago.

The industry was started largely as a spinning enterprise and gradually developed into a full-fledged composite one. The first power-mill was set up in Bombay by a Parsi pioneer, Mr. Kavasji Nanabhai Davar, in 1854.

No. of Persons Employed: It provides direct employment to about 1,030,000 (19 per cent of all factory labour totalling 5·5 million). Indirect employment runs into several millions.

Capital Investment: Estimated at Rs. 3,300 million and the annual value of the output amounts to Rs. 30,000 million.

LOCATION OF THE INDUSTRY

State-wise break-up of Mills as on 1st January, 1977.

State/Zone	Number of Mills	Installed Spindles (in '000)	Installed Looms
Andhra Pradesh	32	595·77	1,246
Assam	2	37·33	—
Bihar	6	84·13	596
Gujarat	117	3,881·41	62,850
Ahmedabad	(69)	2,632·70	(47,078)
Haryana	11	251·64	978
Jammu & Kashmir	1	12·60	—
Kerala	28	485·52	1,124
Madhya Pradesh	24	731·57	13,000
Tamil Nadu	219	4,806·56	9,492
Coimbatore	(114)	2,604·21	(3,959)
Maharashtra	107	4,923·11	77,179
Bombay	(54)	3,555·61	(62,123)
Karnataka	33	794·98	6,087
Orissa	5	117·81	1,014
Punjab	9	197·01	1,396
Rajasthan	21	405·38	3,109
Uttar Pradesh	37	1,131·61	13,368
Kanpur	(14)	555·77	(11,232)
West Bengal	41	1,042·55	9,780
Delhi	4	168·45	3,454
Pondicherry	5	147·13	2,681
Goa	1	28·04	—
Total	703	19,842·16	207,354

Following table shows the break-up according to ownership and present status of the mills which are not privately owned.

	Number of Mills	Installed Spindles (Million)	Installed Looms (Thousand)
Government Run Mills (N.T.C.)	105	2·98	45
Other than N.T.C.	13	0·30	5
Co-operative Mills	48	0·87	—
Closed Mills	40	0·78	7

Ranking in the World: India occupies second position in terms of spindles (after the U.S.A.), third as exporter of cotton textiles (after Japan and Hong Kong), fourth in terms of cotton consumption (after China, U.S.S.R. and U.S.A.).

Cotton Textile Export Promotion Council: (Address: Engineering Centre, Mathew Rd., Bombay 400004.) It is an autonomous body and a non-profit making organisation and was set up in 1954 for the promotion of exports of mill-made cotton yarn and piece-goods, cotton manufactures and all hosiery and readymade garments.

GENERAL

Per Capita Availability: The estimated per capita availability of cotton cloth in 1977 was 11·36 metres, as against 12·58 metres in 1975 and 12·88 metres in 1974. The slight fall reflects the growth in population and the fractional decline in production.

Readymade Garments: India's exports of readymade garments had picked up swiftly in recent years. The export value was hardly Rs. 140 million in 1971–72. It rose to 1,450 million in 1975-76 and Rs. 2,420 million in 1976-77.

National Textile Corporation Ltd. (Details in the chapter on 'Govt. of India Undertakings'.) A public sector undertaking, it was set up in 1968 to take over and run 'sick' textile mills in the country. Similar corporations are also set up in the State sector of Gujarat, Kerala, Maharashtra, Madhya Pradesh, Tamil Nadu and Uttar Pradesh.

Indian Cotton Mills' Federation (ICMF): (Address : Textile Centre, 34, P. D'Mello Rd., Poona St., Wadibunder, Bombay 400009.) Established in March 1958, it is the apex body representing the cotton mill industry of India. The object of ICMF is to watch over, protect and promote the interests of the industry.

Research : Extensive research on cotton textiles is carried out by the following organisations : (1) Ahmedabad Textile Industry's Research Association (ATIRA), P.O. Polytechnic, Ahmedabad 380015, Gujarat. It also has several regional research stations in Gujarat doing research on cotton. (2) Bombay Textile Research Association, [illegible] par, Bombay 400077. (3) Shri Ram Institute for [illegible] Research, 19, University Road, New Delhi 110007. [illegible] India Textile Research Association, Coimbatore [illegible] Tamil Nadu. (5) Textile and Allied Industries [illegible] Organisation, Kala Bhavan, Vadodara-390001, [illegible] (6) Northern India Textile Research Association, 1-11 Himalaya House, Kasturba Gandhi Marg, New Delh 110001.

Publications : (1) *Texprocil Bulletin* (fortnightly brought out by the Cotton Textile Export Promotio Council; (2) *Indian Cotton Mills' Federation J* (monthly), Textile Centre, 34, P. D'Mello Rd., Poona St Bombay 400009; (3) *Indian Textile Bulletin* brought by the office of the Textile Commissioner; (4) *H of Statistics on Cotton Textile Industry*, Indian Mills Federation, Textile Centre, P.D'Mello Rd., Bomb 400009.

PRODUCTION

The actual production of yarn and cloth by the mill sector is as follows :—

Year	Yarn in '000 kg.	Cloth in '000 metres					
		Coarse	Medium B	Medium A	Fine	Superfine	Total
1973	998,000	605,000	1,279,000	1,559,000	368,000	358,000	4,169,000
1974	1,007,000	554,000	1,272,000	1,957,000	277,000	256,000	4,316,000
1975	989,000	538,000	1,125,000	1,829,000	252,000	268,000	4,032,000
1976	1,005,900	553,400	1,130,000	1,788,000	163,000	246,000	3,880,400
1977 (Provisional)	885,000	N.A.	N.A.	N.A.	N.A.	N.A.	3,350,000

EXPORTS

Exports of mill-made Cotton Textiles—Fiscal Year Basis

		Cotton Fabrics		Cotton Yarn		Cotton Apparel	Cotton Hosiery	Other cotton manufactures	Total
		Quantity (Million square metres)	Value (Million Rs.)	Quantity (Million kgs.)	Value (Million Rs.)	Value (Million Rs.)	Value (Million Rs.)	Value (Million Rs.)	Value (Million Rs.)
1973–74	..	649·68	1,611·54	10·30	112·36	636·52	30·12	343·32	2,724·86
1974–75	..	373·11	1,306·12	7·87	182·77	949·57	53·70	467·12	2,959·28
1975–76	..	417·90	1,202·07	4·69	63·81	1,449·15	96·48	409·57	3,221·08
1976–77	..	N.A.	2,022·80	N.A.	303·70	2,419·50	162·70	431·60	5,340·30

DAIRY INDUSTRY

(See chapter on Animal Husbandry for details on cattle and buffalo breeding programmes.)

MILK and milk products contribute about Rs. 8,933 million to the national income. Of the 237 million cattle and buffaloes, only 90 million or 38 per cent are milch animals. Besides, the milk yield is low—157 kgs. a year in the case of a cow and 504 kgs. a year in the case of a buffalo. The highest average **daily milk production** per animal in milk both for cows and buffaloes is in Punjab which is only 2.28 kgs. and 3.99 kgs. per day respectively. The average annual milk production per cow is 4,154 kgs. in USA, 3,950 in U.K. and 3,902 kgs. in Denmark.

India now ranks fourth in the world in the matter of milk production with about 24 million tonnes. Nearly 60-61 per cent is marketed and the balance is used for home consumption or feeding calves.

Per capita consumption : The per capita consumption of milk and milk products varies from State to State The average works out to 5.5 oz.

The present per capita availability of milk (1973-74 is estimated at around 108 grams (3.8 oz.) per head.

Dairy Plants: The total number in operation increased from 132 units in 1973-74 to 149 units in 1974-75, comprising 81 liquid milk plants, 16 milk product [illegible] and 52 pilot milk schemes/rural dairy centres. Besides, 25 dairy products, including some dairy schemes being developed into full-fledged units, were in different stages of implementation.

The average **daily throughput** of milk of all the dairy plants is at present 2·8 million litres as compared to only 0·7 million litres at the end of Second Plan. During 1974–75, there was a spurt in milk production particularly in Maharashtra and Gujarat due to the **Operation Flood** Programme. This project aims at covering a population of 2·1 million milch cattle and buffaloes spread over 22 milk sheds in selected States.

Measures had been taken to increase the number of milk plants in operation to 119 by the end of 1975–76. Similarly, 24 milk product factories were to be in operation in 1975–76. About 37 plants are in the co-operative sector. In many States, co-operatives constitute a major source of supply of milk. On June 30, 1974 there were nearly 14,300 primary milk supply co-operative societies. State level federations are functioning in Uttar Pradesh, Gujarat, Maharashtra and Punjab. At the all India level there is the **National Co-operative Dairy Federation of India** (address awaited) to co-ordinate and facilitate the working of State-level dairy co-operatives. During 1974–75, it had approved the setting up of six milk chilling centres — 5 of 4,000 litres capacity each in Uttar Pradesh and one of 125,000 litres capacity in Andhra Pradesh.

MAIN DAIRY PLANTS

List of main liquid milk plants in operation in Public and Co-operative Sectors as on December 31, 1976 giving names of state, town, installed capacity, average procurement and throughput (in litres per day) respectively.

Andhra Pradesh : Anantapur : 12,000 ; 4,600 ; 4,600 Chittoor : 10,000 ; 11,000 ; 11,000 ; Kurnool : 12,000 5,600 ; 5,600 ; Karimnagar : 12,000 ; 1,200 ; 1,200 Mydukur : 12,000 ; 9,500 ; 9,500 ; Nellore : 10,000 ; 8,100 8,100 ; Nizamabad : 12,000 ; 5,000 ; 5,000 ; Rajamundry 12,000 ; 11,700 ; 11,700 ; Vishakapatnam : 10,000 ; 13,800 13,800 ; Warrangal : 10,000 ; 4,600 ; 4,600.

Assam : Gauhati : 10,000 ; 8,400 ; 8,400.

Bihar : Darbhanga : 6,000 ; 2,400 ; 2,400 ; Gaya : 8,000 ; Under renovation ; Patna : 10,000 ; 14,300 ; 14,300 ; Ranchi : 6,000 ; 5,850 ; 5,850 ; Bhagalpur : 2,000 ; 560 ; 560.

Chandigarh : Chandigarh : 40,000 ; 37,950 ; 49,950.

Delhi : Delhi Milk Scheme : 350,000 ; 204,000 ; 332,400 ; New Dairy Plant : 400,000 ; 43,400 ; 87,000.

Gujarat : Ahmedabad : 140,000 ; 156,300 ; 156,300 ; Vadodara: 100,000 ; 63,200; 63,200 ; Bhavnagar : 4,000 ; 4,200 ; 4,200 ; Surat : 50,000 ; 57,900 ; 57,900 ; Junagarh : 10,000 ; 4,700 ; 4,700 ; Bharuch : 15,000 ; 8,100 ; 8,100 ; Jamnagar : 6,000 ; 4,800 ; 5,900.

Goa : Ponda : 10,000 ; 3,350 ; 5,700.

Haryana : Ambala : 20,000 ; 8,600 ; 14,100.

Himachal Pradesh : Mandi : 10,000 ; 5,750 ; 5,750 ; Nahan : 1,800 ; 2,600 ; 2,600.

Jammu & Kashmir : Jammu : 10,000 ; 2,300 ; 2,300 ; Srinagar : 10,000 ; 1,400 ; 1,400.

Karnataka : Bangalore : 100,000 ; 69,000 ; 76,850 ; Belgaum : 10,000 ; 6,150 ; 6,150 ; Bhadravati : 10,000 ; 4,800 ; 5,000 ; Gulbarga : 10,000 ; 4,000 ; 4,000 ; Hubli-Dharwar : 10,000 ; 11,000 ; 11,000 ; Kudigee : 4,500 ; 2,800 ; 2,800 ; Mangalore : 10,000 ; 5,800 ; 5,800 ; Mysore : 10,000 ; 5,000 ; 5,000 ; Devengere : 5,000 ; 5,200 ; 5,200.

Kerala : Alleppey : 2,000 ; 3,100 ; 3,100 ; Ernakulam : 10,000 ; 8,900 ; 8,900 ; Trivandrum : 20,000 ; 13,000 ; 13,000 ; Calicut : 6,000 ; 6,650 ; 6,650 ; Palghat : 6,000 ; 3,150 ; 3,150 ; Kottayam : 6,000 ; 5,800 ; 5,800.

Manipur : Imphal : 4,000 ; 950 ; 950.

Maharashtra : Aurangabad : 20,000 ; 32,200 ; 32,300 ; Bombay-Aarey : 250,000 ; 550,770 ; 703,500 ; Bombay-Worli : 450,000 ; 550,770 ; 703,500 ; Bombay-Kurla : 400,000 ; 550,770 ; 703,500 ; Dhule : 120,000 ; 124,000 ; 124,000 ; Kolhapur : 50,000 ; 48,000 ; 48,000 ; Nagpur ; 40,000 ; 45,800 ; 45,800 ; Nasik : 20,000 ; 26,800 ; 26,800 ; Pune : 100,000 ; 83,100 ; 83,100 ; Solapur : 20,000 ; 34,800 ; 34,800.

Madhya Pradesh : Bhopal : 20,000 ; 13,700 ; 13,700 ; Gwalior : 10,000 ; 4,000 ; 4,000 ; Indore : 20,000 ; 4,700 ; 4,700 ; Jabalpur : 10,000 ; 2,500 ; 2,500.

Orissa : Cuttack : 6,000 ; 1,700 ; 1,700.

Pondicherry : Pondicherry : 10,000 ; 19,900 ; 19,900.

Rajasthan : Jaipur : 20,000 ; 18,250 ; 18,250 ; Ajmer : 50,000 ; 31,700 ; 31,700.

Tamil Nadu : Madras-Madhavaram : 125,000 ; 90,500 ; 90,500 ; Madras-Ambattur : 200,000 ; 38,000 ; 40,000 ; Erode : 100,000 ; 50,700 ; 50,700 ; Chidambaram : 5,000 ; 450 ; 450 ; Coimbatore : 16,000 ; 17,000 ; 17,000 ; Kodaikanal : 2,000 ; 1,000 ; 1,000 ; Kanyakumari : 16,000 ; 6,990 ; 6,990 ; Thanjavur : 16,000 ; 3,000 ; 3,000 ; Trichy Srirangam : 16,000 ; 6,150 ; 6,150.

Tripura : Agartala : 2,000 ; 1,250 ; 1,250.

Uttar Pradesh : Agra : 6,000 ; 11,000 ; 11,000 ; Allahabad : 5,400 ; 1,600 ; 1,600 ; Almora : 10,000 ; 350 : 350 ; Haldwani : 10,000 ; 2,550 ; 2,550 ; Mathura : 10,000 ; 16,650 ; 16,650 ; Lucknow : 40,000 ; 18,700 ; 23,800 ; Dehradun : 20,000 ; 2,350 ; 2,350 ; Varanasi : 1,800 ; 1,300 ; 1,600 ; Gorakhpur : 10,000 ; 1,000 ; 1,000 ; Kanpur : 50,000 ; 15,000 ; 15,000 ; Bareilly : 6,000 ; 1,000 ; 1,000.

West Bengal : Calcutta-Harighat : 300,000 ; 117,700 ; 194,750 ; Calcutta-Belgachia ; 300,000 ; 117,700 ; 194,750 ; Durgapur : 55,000 ; 4,100 ; 4,100.

Milk Products :

Following is the list of milk products factories in Public/Co-operative Sectors giving State, town, installed capacity, average procurement and throughput respectively.

Andhra Pradesh : Hyderabad : 120,000 ; 57,500 ; 57,500 ; Vijayawada : 125,000 ; 90,500 ; 90,500.

Bihar : Barauni : 100,000 ; 26,600 ; 26,600.

Gujarat : Anand : 700,000 ; 331,000 ; 331,000 ; Banaskantha : 100,000 ; 63,100 ; 63,100 ; Rajkot : 545,000; 29,700 ; 29,700 ; Mehsana : 350,000 ; 217,800 ; 217,800 ; Sabarkantha : 100,000 ; 92,200 ; 92,200.

Haryana : Bhiwani : 15,000 ; 11,000 ; 11,000 ; Jind : 50,000 ; 32,800 ; 32,800 ; Rohtak : 100,000 ; 9,000 ; 9,000.

Maharashtra : Miraj : 100,000 ; 106,800 ; 106,800 ; Jalgaon : 100,000 ; 80,000 ; 80,000 ; Warna Nagar : 50,000 ; 40,000 ; 40,000.

Rajasthan : Bikaner : 100,000 ; 25,550 ; 25,550 ; Jodhpur : 100,000 ; 25,500 ; 25,500.

Punjab : Amritsar : 65,000 ; 30,900 ; 30,900 ; Bhatinda ; 100,000 ; 1,600 ; 1,600 ; Ludhiana : 100,000 ; 37,200 ; 37,200 ; Hoshiarpur : 75,000 ; 10,643 ; 10,643.

Uttar Pradesh : Aligarh (Creamery) : 1,000 Kg. ; 1,900 ; 1,800 ; Koradabad : 55,000 ; 16,300 ; 16,300.

West Bengal : Siliguri (Matigara) : 100,000 ; 10,250 ; 14,250.

Tamil Nadu : Madurai : 150,000 ; 53,900 ; 53,900.

Expansion Programmes :

Following are schemes under expansion/implementation as on January, 1977.

Andhra Pradesh : Vishakhapatnam (second dairy) ; Sangamjagarlamudi ; Khammam.

Assam : Jorhat ; Dibrugarh ; Tejpur.

Bihar : Bokaro ; Jamshedpur ; Patna.

Gujarat : Panchmahal (Godhra).

Haryana : Faridabad.

Himachal Pradesh : Kangra ; Simla.

Karnataka : Bijapur ; Bangalore (expansion) ; Mysore (expansion) ; Tumkur ; Hassan.

Kerala : Cannanore ; Quilon ; Trichur.

Maharashtra : Nagpur (expansion) ; Dhulia (expansion); Udgir.

Madhya Pradesh : Bhopal ; Indore ; Ratlam ; Ujjain ; Raipur.

Orissa : Berhampur.

Rajasthan : Bharatpur ; Alwar ; Ajmer (expansion); Kota ; Jaipur (second dairy).

Tripura : Agartala (second dairy).

Meghalaya : Shillong.

Punjab : Gurdaspur ; Jullundur ; Mohali ; Sangrur.

Uttar Pradesh : Meerut ; Rai Bareilly ; Varanasi ; Allahabad (second dairy) ; Faizabad ; Azamgarh ; Jaunpur ; Pratapnagar ; Unnao ; Sitapur ; Shahjahanpur ; Farukhabad ; Jalaun ; Bijnor.

West Bengal : Burdwan; Calcutta (second dairy); Krishna Nagar ; Bendanga.

Mizoram : Aizawl.

Milk Powder: The average daily production of milk powder and infant food is about 43 tonnes. The following table indicates the licensed capacity and production of different milk products during 1972.

Products		(tonnes) Annual licensed capacity	Production during 1972
Milk powder	..	34,618	11,000
Infant Milk Food	..	34,887	19,856
Malted Milk	..	22,615	12,430
Condensed Milk	..	19,860	8,960

Butter and ghee production amounts to about 40 tonnes a day.

The country is now almost self-reliant with regard to the production of table butter, condensed milk, infant milk foods and malted milk foods.

Indian Dairy Corporation : (IDA House, Sector IV, R. K. Puram, New Delhi 110022.) (See 'Govt. Indl. Undertakings'.)

National Dairy Development Board : (Anand, Gujarat 388001).

The National Dairy Development Board (NDDB) was constituted by the Ministry of Agriculture and Irrigation, Government of India, as an autonomous body. NDDB's major objectives are to make available on request, the information, skill and technical services needed to increase production of milk and dairy technical inputs, to speed up development of milk procurement, processing and distribution and to conduct research.

Jalgaon Jilha Sahkari Dudh Vikas Federation Ltd.: (Jalgaon Dairy, Dhulia Rd., Jalgaon 425001, Maharashtra.) Has a milk products factory, chilling centralised stud bull centres and a cattle feed collects about 200,000 litres of milk every day for bution in Bombay City.

Kaira District Co-operative Milk Producers' Unio Ltd. (Anand 388001, Gujarat). It is a union of village co-operatives with a total membership of 250

Madras Co-operative Milk Supply Union Ltd (Ayanavaram, Madras 600023).

Mehsana District Co-operative Milk Producer Union Ltd.: (Mehsana 384001, Gujarat). On an aver it collects 350,000 litres of milk per day and produces tonnes of spray dried milk powder.

Pradeshik Co-operative Dairy Federation Ltd.: (Park Rd., Lucknow 226001, U.P.). Has a milk produc factory. Will shortly commission its two dairy factories wit capacity of 100,000 litres per day and manufacture of tonnes of milk powder. It also has a Jersey bull farm.

Rajkot District Gopalak Co-operative Milk Producers' Union Ltd.: (Near New Power House, Bhavnag Rd., Rajkot 360003).

Veterinary Care: During 1975–76 there were 10,34 veterinary hospitals and dispensaries, 149 check-posts, vigilance units and 33 vaccination stations.

Research and Education :

(1) The Indian Veterinary Research Institute, Izatnagar (U.P.), Haryana Agricultural Univ., Haryan and Punjabrao Krishi Vidyapeeth, Akola (Maharashtra are post-graduate institutions for Veterinary Science.

(2) Central Sheep and Wool Research Institute Malpura, Rajasthan.

(3) National Dairy Research Institute, Head Office a Karnal in Haryana.

There are 21 agricultural universities in the country wit Department of Animal Husbandry.

The 24 veterinary colleges are at:—Tirupat Hyderabad (Andhra Pradesh); Khannapara, Gauhat (Assam); Patna, Kanke-Ranchi (Bihar); Anand (Gujarat Hissar (Haryana); Hebbal, Bangalore (Karnataka) Mannuthi, Trichur (Kerala); Mhow, Jabalpu (Madhya Pradesh); Madras city (Tamil Nadu); Bombay Nagpur, Parbhani (Maharashtra); Bhubaneshwar (Orissa Ludhiana (Punjab); Bikaner (Rajasthan); Mathura Pantnagar (Uttar Pradesh); Belgachia — Calcutta (Wes Bengal).

Vaccine Plant : Behring Institute, a division of Hoech Pharmaceuticals Ltd., has set up a factory in Bombay manufacture vaccine for foot and mouth diseases cattle. The annual capacity is 3 million doses which can increased to 10 million doses if necessary.

Publications: 'Indian Dairyman' — monthly — an 'Indian Journal of Dairy Science' — quarterly. brought out by the Indian Dairy Association.

DRUGS & PHARMACEUTICAL INDUSTRY

BRIEF HISTORY

THIS industry has grown considerably since 1947 both in the Private and the Public Sector. In 1947 the Public Sector in the drug industry was non-existent. In the early fifties the indigenous production of drugs and pharmaceuticals amounted to Rs. 350 million. It consisted mainly of galenicals produced from medicinal plants and herbs and formulations of imported bulk drugs. On the whole, the industry had to depend largely import of diverse chemicals, both basic and in

Production : Most of the drugs including the portant life-saving medicines covering the range of biotics, e.g. Penicillin, Streptomycin, Chloramphenicol, Erythromycin etc., Sulpha ing long acting ones, e.g. Sulphasomidine, Sulfadimidine, Phthaly-Sulphathiazoles, etc., antidrugs, e.g. INH, PAS, Thiacetazone, Ethambutol etc., Vitamins, e.g. A, B_1, B_2, B_{12}, C, D, E, P & K, Folic Acid etc., Steroids, e.g. Prednisolone, Betamethasone, Dexamethasone, etc., and a host of other synthetics, phyto-chemicals and biological products are now manufactured within the country. The overall production of drugs and pharmaceuticals for the year 1976-77 is estimated at Rs. 1,500 million in terms of bulk drugs and Rs. 7,000 million in terms of finished formulations. The industry consists of about 128 units in the organised sector and about 2,500 units in the small-scale sector.

Organised Sector : Of the 128 units, 14 produce bulk drugs, 27 produce only formulations, 67 produce both and 12 manufacture pharmaceutical auxiliaries and 8 units which have recently been licenced are yet to commence production.

Foreign Equity : Of the 128 units, 32 have foreign equity exceeding 50 per cent while 13 have foreign equity ranging between 40 and 50 per cent. Of the above, 6 units are functioning as branches of foreign companies.

Expansion : The estimated indigenous production of bulk drugs during 1977-78 is of the order of Rs. 1,750 million and of formulations Rs. 8,000 million. It has been estimated that the total requirement of bulk drugs by 1982-83 is expected to be Rs. 5,500 million which is likely to result in formulations worth Rs. 19,000 million. Thus production of additional bulk drugs worth Rs. 3,750 million and formulations worth Rs. 12,000 million have to be organised during the period 1978-79 to 1982-83. The investment needed during this period has been estimated at Rs. 37,750 million for bulk drugs and Rs. 1,500 million for formulations.

Production of various important drugs during 1952, 1962 & 1977

Name of drugs	Units	1952	1962	1977
Penicillin and its salts	MMU	—	85	311·6
Streptomycin and its salts..	Tonnes	—	57	193·5
Tetracyclines	,,	—	21	225·2
Chlorophenicols	,,	—	22	93·3
P.A.S.	,,	—	254	559·8
I.N.H.	,,	1·35	60	58·3
Talbutemide	,,	—	11	23·2
Aspirin	,,	140·00	445	948·9
Phenacetin	,,	—	2	201·1
Sulpha drugs	,,	41·87	222	1,164·0
DDS and its salts	,,	0·83	7	17·2
Vitamin A	MMU	—	21	47·8
Other vitamins	Tonnes	0·10	127·050	697·0

Output of other popular drugs (tonnes) during 1976-77 was as follows : Paraphnetidine : 67·22 ; Sulghacyl and its salts : 54·40 ; Analgin : 281·02 ; Amidopyrine : 246 ; Piperazine Salts : 96·82 ; Phenobarbitone and its salts : 13·55 ; Thiacetazone : 0·15 ; Potassium Pen. : 23,750 milliards ; Procaine : 19,391 milliards ; Oxytetracycline : 36,539 milliards.

Government Study : Government have since taken a decision on the recommendations made in the Report of the (Hathi) Committee on Drugs and Pharmaceutical Industry submitted in April, 1975. The decisions include the allocation of a leading role to the public sector, fostering the growth of the Indian (including small-scale sector) and regulation of the activities of foreign drug firms in India, as well as rationalisation of pricing.

Bulk Drug Sales : In case of 18 bulk drugs imports will now be made by State Chemicals and Pharmaceuticals of India Limited (CPC) under OGL on the basis of foreign exchange released by Government. Import, distribution and their pricing will be made by CPC as per the policy of Government in the Ministry of Petroleum, Chemicals and Fertilizers.

Price Control : Control on prices of drugs was first introduced in the country in 1963. The retail prices of drugs then prevailing were frozen and it was provided that prior approval of the Government should be obtained for any increase in prices.

Later in June, 1966, an order was promulgated under which approval of government for fixing prices of new drugs had to be taken, and, marking of retail prices on containers of drugs was made compulsory.

A comprehensive order was issued in May, 1970, designed to :

1. bring down the prices of those essential drugs whose prices generally remained very high ;
2. to provide sufficient incentives to the industry to maintain and facilitate its growth from the basic stage and to develop research facilities and expansion in a planned manner ;
3. to promote diversification of entrepreneurship in the future development of this industry and thereby provide better opportunities for Indian personnel with requisite technical qualifications ; and,
4. to curb excessive profits.

In order to give relief to the drug manufacturing units with a turnover not exceeding Rs. 5 million per annum, they were exempted from the requirement of obtaining government approval for the prices of their formulations.

The order was amended effective from May 1, 1975 and provided that no retailer shall sell any formulation to the customer at a price exceeding the retail price of that formulation in the price list approved by the Central Government or the price displayed on the label of the container of the formulation whichever is less, plus local taxes, if any payable.

Research and Development : A premier role is played by the R & D laboratories in the public sector. While IDPL have developed processes for a number of bulk drugs like *retronidazole*, *nitrofarazene*, *allopurinol* and *phthaly sulphathiazole* etc. HAL has established facilities for the production of 6-APA (an intermediate for ampicilin) from penicillin crystals. Some of these are laboratories like Central Drug Research Institute, Lucknow (U.P.); National Chemical Laboratory, Pune (Maharashtra); Regional Research Laboratories at Hyderabad (A.P.), Jammu (Kashmir) and Jorhat (Assam), under Council of Scientific & Industrial Research, New Delhi and Research and Development Laboratories at the Antibiotics Plant, Rishikesh (U.P.) and Synthetic Drugs Plant, Hyderabad (A.P.) under IDPL and a research centre at Hindustan Antibiotics Ltd., Pimpri (Maharashtra).

In the private sector also, there are a number of drug research centres of which those of Bengal Immunity, Sarabhai, Ciba-Geigy and Hoechst are im [illegible] research units have contributed significantly [illegible] improving the existing technology, development [illegible] processes and drugs and discovering import su [illegible] of several raw materials and intermediates.

Drug Information Centre : Grant Medical [illegible] Sir J. J. Hospital, Byculla, Bombay 400008. The [illegible] will give information on toxicities and factotoxi [illegible] other adverse reactions of any drug to any medical [illegible] tioner on telephone. It will also keep in touch wi [illegible] developments in drug therapies.

ELECTRONICS INDUSTRY

BRIEF HISTORY

THE Electronics Industry in India is increasingly playing an important role in the national development. This industry in India nucleated during the early 1950's with the manufacture of radio receivers by a few private firms. Since then, it has not only grown in total volume, but also has diversified enormously. In fact, there is hardly any major sector of economy in which electronics does not find some use. The trend has been towards growth of professional electronics and self reliance in many of the high technology sophisticated fields.

Even a brief survey of developments in the country indicates the vital support offered by the electronics industry. More than 80 per cent of India's population is now covered by the mass communication media like radio and television. The defence preparedness is now based on the indigenously manufactured radars and other sophisticated systems, the process control instrumentation is being increasingly used for economic running of different processes and manufacturing industries like fertilizers, petrochemicals, etc. Indigenously produced computers are being used in some cases. Electronics plays a pivotal role in the control of nuclear reactors and optimal distribution of power through the grids. The launching of the first Indian satellite was testimony of our ability to design and implement complex projects involving myriad of electronic systems.

Growth of Electronics : During the last ten years, the production of electronic equipment and components has increased tremendously. Table 1 gives a profile of the production of electronic items over the last four years. During the last few years many technical entrepreneurs have started electronics industry in the small scale sector. The commercial viability of such small scale units was demonstrated through the successful manufacture of items in consumer electronics and instrumentation area which has reached self-reliance and self-sufficiency. The private sector is also responsible for substantial export of electronic items, and has entered into areas like radio frequency cables, microwave components, digital instruments, control equipment, etc.

Export of electronic items increased from Rs. 270 million in 1976, to Rs. 370 million in 1977.

Consumer Electronics : The main items in this sector are radio, TV, tape recorders, record players and public address systems. The total production in this sector increased from Rs. 1,010 million in 1976 to Rs. 1,330 million in 1977 registering a net growth of 32 per cent against 23 per cent achieved during 1976. The total production of radio receivers increased from 3 million in 1976 to about 3·76 million in 1977. The small-scale sector played an important role in the growth of radio manufacture. In order to encourage the production of low cost radio receivers the government has reserved this item for [illegible] tion in the small scale sector and exempted the [illegible] excise duty. Currently, the ownership of the radio [illegible] is estimated to be about one set for every 35 p [illegible] the country. The production of TV receivers in [illegible] around 240,000. A wider base for tape recorder [illegible] and cassette radio combinations has been [illegible] the past few years. While the production of record [illegible] decreased marginally, there has been an inc [illegible] production of amplifiers and PA systems. Prod [illegible] electronic calculators has also increased, both in q [illegible] and variety.

Consumption of Electronic Goods

($ mi

Country	Electronic Equipment	Electronic Components	Consumer End Equipment	Prof-sional Equi-men
India ..	440	110	115	3
U.S.A. ..	49,000	9,000	7,500	41,5
France ..	5,000	1,700	900	4,1
U.K. ..	5,000	1,500	1,000	4,0
Japan ..	11,500	4,600	3,500	8,0

Figures for foreign countries from " Electronics 1985 [illegible] by Electronic Industries Association, Washington DC.

Telecommunication Equipment : [illegible] few years the demand for [illegible] equipment has been rising rapidly. A [illegible] rate of [illegible] of 10 per cent per annum in domestic [illegible] maintained.

It has become possible to supply indigenously [illegible] microwave equipment for the second satellite earth [illegible] at Dehradun. A 6-hop 4 GHz broadband 1,8 [illegible] system, meeting the CCITT specifications has also [illegible] fully completed evaluation trials. The 6 GHz [illegible] meeting similar performance is now in producti [illegible] other equipment such as narrow band and [illegible] city systems, microwave instruments, microwave [illegible] UHF communication systems, crossbar switching [illegible] ment, multiplex equipment, etc., are in contin [illegible] lopment and production in the public sector.

Direct trunk dialling by subscribers (STD) is [illegible] operation between more than 70 pairs of cities. [illegible] network connects over 12,400 subscribers in [illegible] cities. In the area of international communi [illegible] first satellite link was established [illegible] 1971. The second satellite earth station in [illegible] Delhi was commissioned in February 1977. The [illegible] service has taken another major step with the [illegible] of a SPC international exchange at Bombay

Production of Electronic Equipment and Components during the last four years

(Rs. million)

Calendar year		Consumer Electronics & Mass Communications	Telecommunication Equipment	Aerospace & Defence Equipment	Computers, Control & Instruments	Equipment total	Components	SEEPZ Production for export	Equipment & Components total
1974	..	780	700	470	340	2,290	720	—	3,010
1975	..	845	970	490	585	2,890	750	5	3,645
1976	..	1,030	1,100	500	640	3,270	800	30	4,100
1977	..	1,030	1,260	490	1,000	4,055	905	45	5,005

dialling facilities between Bombay-London and Delhi-London.

The development and production activities in the telecommunication field and VHF/UHF communication are continuing in the **Indian Telephone Industries, Bharat Electronics Limited, Hindustan Teleprinter Limited, Hindustan Cables Limited and Electronics Corporation of India Limited** (for details see Government of India undertakings). There are plans to supplement these efforts in some of the newly set up State Electronics Development Corporations. Research and Development in telecommunication is continuously being carried out in the Telecommunication Research Centre under the Ministry of Communications.

Seven satellite earth stations are being planned to establish faster and reliable communication even in remote areas. In the next phase, there will be 32 ear satellite stations to be installed under this plan.

Another noteworthy development is the execution of communication and telemetry systems for offshore oil wells near Bombay.

Computers and Data Processing Equipment : The first computer in India started its operation more than 16 years ago. Since then, there has been a rapid growth in terms of computer installations and throughput. At present there are about 400 computer systems installed in the country, including 87 systems manufactured by Electronics Corporation of India Limited, Hyderabad. It is estimated that about 15 large size and 250 medium size and 400 mini-computers will be required in the next three to four years. A wide variety of computer peripherals will also be required to support these new installations.

The present indigenous manufacturing programme for peripherals is for low-speed devices. Two public sector companies have undertaken the development work for a variety of peripherals like consol keyboard printers, card readers, dot matrix printers, cassette drives, magnetic tape drives, visual display units and direct entry devices. The production of some of these items will be started [illegible].

In order to gain experience in development and application of computer and related technologies two national centres namely, **National Centre for Software Development and Computing Techniques** (NCSDCT) and **National Informatics Centre** (NIC) have been up with the assistance of UNDP. NCSDCT is functioning at the Tata Institute of Fundamental Research at Bombay. The primary objectives of this centre are to develop software tools and computing techniques to support the growth of a major self-reliant computer and associated semiconductor industry. The National Informatics Centre at Delhi was set up for developing methodologies relating to large data bases and their development. Experiments in data communication are also in progress. The Department of Electronics is also setting up regional computer centres at various locations in the country.

Considering the importance of maintenance and efficient operation of wide variety of computers already installed in the country, and to be installed, the Department of Electronics has set up a **Computer Maintenance Corporation** in the public sector. This corporation is responsible for coordinating and implementing all aspects of system design and maintenance of computers. It will also stock and ensure continuous and fast supply of spares for the systems in operation.

Another notable development is the efforts made to generate computer software for exports. With the highly skilled software personnel available in the country, there is considerable potential for building up this industry, especially for exports. India has started exporting computer software to countries in the West, USSR and Eastern Europe.

Control and Industrial Electronics : With the accelerating progress in technology, industrial processes have become increasingly complex. It is vital to run them with adequate and sophisticated instrumentation and control systems, so that operational cost, efficiency and quality are optimised. In the field of instrument servo components, two of the prominent groups are Servo Control Division at ECIL and Control Guidance & Instruments Division of SSTC. Indigenous production of servo components has been established with the manufacture of servo and hysteresis motors, synchros and rate gyropackages. There are about 70 units engaged in the manufacture of process control instruments. The types of instruments produced cover temperature measurement using mercury, resistance and pyrometric methods, gauges for pressure measurement, strain gauge instrumentation and a variety of analysers. **Instrumentation Limited,** (for details see Government of India undertakings) is producing a wide variety of pneumatic instruments. The items manufactured in the field of industrial electronics cover a wide variety of drives, numerical control machines, dielectric, induction, furnaces, etc. The development in this field has been rapid and the basic components like thyristors and high power silicon diodes are being manufactured. New areas in industrial electronics like mining electronics, pollution monitoring equipment and agro-electronic instruments are growing rapidly.

Instruments : A wide variety of instruments like test and measuring, analytical, nuclear, geoscientific etc. art being manufactured in the small scale sector. The tese and measuring instruments manufactured include instruments like digital multimeter, admittance bridge, oscilloscopes, communication test equipment and TV test instruments. The analytical instruments manufactured include pH meters, conductivity meters, spectrophotometers and calorimeters. The production of nuclear instruments like

GM counters, phase analysis equipment, reactor control instruments, whole body counters is mainly concentrated at ECIL, Hyderabad. The present manufacturing base for geoscientific and related instruments is quite modest, although the demand for these instruments is growing due to the increasing activity in oil and mineral exploration.

Medical Electronic Equipment : One of the spin-offs due to increasing sophistication in electronics is the emergence of a new area called bio-medical engineering or medical electronics. In India, though the field of medical electronics is still in its infancy, it has made a significant start. New equipments in increasing numbers are being used in many hospitals. The production of electronics equipment is mainly in the small and scale industries both in the public and private X-ray equipment constitutes the major share of the ment manufactured. Some of the other equipments rently being manufactured are electro-cardiogra pirator, foetus heart detector, hearing aid and

Components & Materials : In the field of comp the production has risen from mere Rs. 65 million 66 to Rs. 900 million at present. However, as comp

DETAILS OF PROJECTS (ITEM-WISE) APPROVED DURING 1977-78

Sl. No.	Item	Qty. approved for manufacture (Nos.)	Ex-factory value (Rs. million)	Investment in C.G. proposed (Rs. million) Imported (cif)	Indigenous	Employment (persons)	Propose export (per ce
1	2	3	4	5	6	7	8
1.	Electronic measuring and supervisory systems for industrial applications	500 chains	12·50	0·41	0·25	75	—
2.	Industrial electronic control equipment	—	36·45	0·74	1·28	218	—
3.	Electronic instruments including digital instruments ..	1975	22·40	2·43	2·86	270	—
4.	Power electronic equipment	—	31·50	0·40	1·00	520	—
5.	Digital programme timer, etc.	10,000	3·00	—	—	—	—
6.	Two-way communication equipment	4,800	30·00	0·50	0·50	235	—
7.	Transmission equipment ..	—	250·00	30·60	11·80	965	—
8.	Crossbar equipment ..	60,000 lines	205·70	23·20	55·70	2,265	—
9.	Video tape recorders ..	250	3·75	0·05	0·05	30	—
10.	Central despatch system ..	100	6·00	0·12	0·35	45	—
11.	(i) Computer peripherals of various kinds .. .. (ii) Computer printer devices (iii) Magnetic cassette devices (iv) Terminal displays ..	15,000 20,000 12,000 75,000	221·10	34·20	33·30	1,200	95
12.	Data logging equipment ..	100	8·00	0·70	0·45	45	—
13.	Data entry systems ..	400	14·00	0·15	0·10	22	—
14.	Performance monitor ..	6	0·86	—	—	—	—
15.	TV cameras	100	0·75	—	—	—	—
16.	Television sets	120,000	80·00	3·90	6·60	1,108	83
17.	Prerecorded cassettes and cartridges & reels	1·55 million	25·00	6·80	1·00	300	75
18.	Magnetic tapes	240 MRM	13·80	8·80	1·70	102	80
19.	DC micromotors	30,000	8·08	1·50	0·60	27	30
20.	Semiconductor devices ..	7·7 million	67·20	15·05	4·84	561	—
21.	Pulse transformers/electromagnetic relay times, ferrite devices	2·25 „	32·40	0·30	—	400	[illegible]
22.	(i) Plastic film capacitor (ii) Metallised film ..	20·0 100 MT	42·60	22·00	3·00	150	76
23.	(i) Mica plate parts ..	150·0 million 15·0 „	21·75	3·15	0·10	454	[illegible]
24.	Lighted push button switch ..	0·2	1·60	0·25	0·15	34	—
25.	(i) Computer system .. (ii) Card readers .. (iii) Line printers .. .. (iv) Magnetic tape transport	20 100 100 200	71·75	9·40	3·50	1,026	

to consumer grade components, the production of professional components is lagging behind. Consumer grade components in addition to meeting the local demand are being exported in substantial quantities.

In the area of electron tubes, the production includes that of receiving and transmitting tubes, magnetrons, x-ray tubes, TV picture tubes and nixie tubes. In the area of semi-conductor devices, most of the production is of germanium and silicon discrete devices. As regards integrated circuits, Bharat Electronics Limited (BEL) is producing TTL ICs with indigenous know-how. Hybrid microcircuits are made by BEL and ITI. The planned Semiconductor Complex near Chandigarh will be manufacturing MOS LSI, bipolar LSI and LED's.

In the area of passive components, different varieties of resistors and capacitors are manufactured. About a dozen manufacturers are making coaxial, rack and panel and printed circuit connectors. Relays are also being produced in a fairly wide range. ITI, Bangalore, makes telephone type relays for its telecommunication equipment switches which include rotary wafer, push button, toggle, snap-action, etc. These are also being produced by more than 25 manufacturers. Other components like crystals, transducers, magnetic components, printed circuit boards are also being manufactured. In so far as materials are concerned, the electronic component industry still depends on imports to the tune of over 50 per cent. The production of some ultra-pure materials has been established at Special Materials Plant, Hyderabad. A wide variety of soft and hard ferrites are already under production catering to most of the requirements. Except some special plastics like PTFE, DAP and polycarbonate, etc., others are being locally manufactured.

PUBLIC SECTOR UNDERTAKINGS

Following are the names of the undertakings in the electronics field. Details about their production and addresses are given in the chapter on Government of India undertakings.

1. Indian Telephone Industries (ITI). 2. Bharat Electronics Limited (BEL). 3. Hindustan Teleprinters Limited (HTL). 4. Electronics Corporation of India Limited (ECIL). 5. Instrumentation Limited (IL). 6. Hindustan Aeronautics Limited (HAL). 7. Central Electronics Limited (CEL). 8. Electronics Trade & Technology Development Corporation (ETTDC). 9. State Electronics Development Corporation (SEDC).

Private Undertakings : There are large number of private undertakings like Philips, Bush, Murphy, Weston, Televista, Continental Devices etc. who are contributing substantially to the growth of the electronics industry.

FERTILISER INDUSTRY

It was in the Third Plan that the industry received a big boost. As against the allocation of Rs. 11,500 million in the Fifth Plan the actual expenditure on the schemes in the first four years of the Plan was about Rs. 15,000 million. With the implementation of the schemes, which are either under consideration or approved, the total capacity developed would be 6,343,000 tonnes of nitrogen and 1,880,000 tonnes of P_2O_5. Most of the capacity developed in the fertiliser field is based on naphtha but in view of the increasing pressure on naphtha, Government has decided that new plants would be based either on coal or fuel oil/heavy petroleum fractions depending on the suitability of the locations, availability of raw materials, demand considerations, etc. In pursuance of this policy, three large-sized coal-based plants are under implementation at Talcher, Ramagundam and Korba each consuming about 1 million tonnes of coal per annum.

There are more than 50 fertiliser factories of various sizes in the private and public sectors.

Public sector : Following are the public sector units :—

For effective management the Government has reorganised the *Fertiliser Corporation of India* and *National Fertilisers Ltd.* into five companies with effect from April 1, 1978. The names of the companies with their units respectively are : 1. *Fertiliser Corporation of India :* Sindri old and new plants, Sindri Fertiliser, Gorakhpur, Talcher, Ramagundam and Korba ; 2. *National Fertilisers Ltd.* : Nangal, Bhatinda, Panipat ; 3. *Hindustan Fertiliser Corpn. Ltd. :* Namrup, Haldia, Barauni, Durgapur ; 4. *Rashtriya Chemicals & Fertilisers Ltd. :* All units at Trombay and the gas plants in the South of Bombay ; 5. *Fertiliser (Planning & Development) India Ltd. :* Plant and Development division of Refineries.

Fertilisers and Chemicals Travancore Ltd. (FACT), Udyogamandal (Alwaye), Kerala. The Cochin Fertiliser factory (Phase I) at Ambalamedu set up by FACT and FCI at a cost of Rs. 630 million began production in April, 1973. Its second major project in Cochin (Cochin Phase II) with the assistance of the World Bank has been completed and trial run commenced in December, 1976.

TABLE I

GROWTH OF FERTILISER INDUSTRY

Year/period	Capacity during the period ('000 tonnes)	
	N	P_2O_5
Before 1947	5	31
	(5)	(31)
At the end of 1947	5	5
	(10)	(36)
At the end of 1950	5	8
	(15)	(44)
1951-1955 (I Plan)	70	20
	(85)	(64)
1956-1960 (II Plan)	157	31
	(242)	(95)
1961-1965 (III Plan)	306	133
	(548)	(228)
1966-1968 (Annual Plans) ..	221	193
	(769)	(421)
1969-1973 (IV Plan)	1,170	79
	(1,939)	(500)
(*a*) 1974-75	42	305
	(1,981)	(500)
(*b*) 1975-76	518	192
	(2,509)	(692)
(*c*) 1976-77	479	109
	(2,988)	(801)
(*d*) 1977-78	40	114
	(3,028)	(915)

Notes : 1. The Table published in last year's Directory included small units producing formulations. This table gives only large manufacturers of fertiliser. Source : Ministry of Chemicals and Fertilisers.

2. Figures in brackets represent cumulative totals.

Madras Fertilisers Ltd., at Madras (Tamil Nadu) with an annual capacity of 160,000 tonnes of nitrogen and 100,000 tonnes of phosphates commenced production in November, 1971. It is a joint venture in which the Government of India holds 51 per cent of the equity capital while the remaining 49 per cent is equally shared between Amoco India Incorporated of USA and the National Iranian Oil Co. of Iran.

Indian Farmers' Fertilisers Co-operative Ltd. (IFFCO), have ammonia/urea complex at Kalol and NPK at Kandla both in Gujarat. In addition one ammonia urea complex at Phulpur, U.P. is under construction.

STATE SECTOR :

Bihar State Superphosphate Factory, Dhanbad.

Associated Industries, Assam.

Hyderabad Fertilisers & Chemicals, Hyderabad.

Maharashtra Agro Chemicals, Maharashtra.

Hindustan Zinc Ltd., Debari, Rajasthan.

PRIVATE SECTOR : The major private sector units in production, under implementation and approved in principle are mentioned with their capacity in Table III.

Production & capacity : In terms of production and capacity, fertiliser industry, as a whole, has made rapid strides. Indigenous production in this sector meets about 65-70 per cent of the demand. The Fourth Plan and the first four years of the Fifth Plan recorded a very significant growth in the development of capacity and production. High nutrient fertilisers like urea, DAP urea, ammonium phosphate & NPK complex fertilisers were produced in larger quantities as compared to ammonium sulphate and super phosphate produced at the initial stage.

During 1975-76, India hit the annual production target for fertiliser for the first time in 10 years. Production in 1975-76 of over 1·5 million tonnes of nitrogen represents approximately a 30 per cent increase over that of 1·185 million tonnes in 1974-75. While this trend has been maintained in the subsequent years with the production of nitrogen crossing the two million tonnes in 1977-78 and phosphate touching a level of 670,000 tonnes of P_2O_5, the production still falls short of the demand and about a third of the requirement of the nitrogen and marginal quantities of phosphate are imported to meet the shortfall

Capacity utilisation in the industry during 1975-76. improved to 63 per cent from 58 per cent in 1974-75.

The public sector fertiliser plants mainly contributed to the increased production. Production in these plants totalled 713,794 tonnes in 1975-76 against 531,000 tonnes in 1974-75.

During the year 1975-76 two new plants and one existing expansion unit went into operation — Tuticorin, Kalol and Gorakhpur expansion — bringing the total installed capacity to 2·11 million tonnes of nitrogenous and to 0·70 million tonnes of phosphatic fertilizers.

Nitrogenous Fertilisers:

TABLE II

Year	Total: No. of units	Total: Production Nutrient-N ('000 tonnes)
1965-66	13	233
1970-71	19	830
1973-74	20	1,060
1975-76	27	1,535
1976-77	30	1,900

TABLE III

(A) PROJECTS IN PRODUCTION

(As on 1st April, 1978)

Name of Factory	[illegible]
Public Sector	N
1. FCI :	
(a) Sindri	90
(b) Nangal	80
(c) Trombay	81
(d) Gorakhpur (including expansion)	131
(e) Namrup (including expansion)	197
(f) Barauni	152
(g) Durgapur	152
2. FACT :	
(a) Alwaye	82
(b) Cochin I	152
(c) Cochin II	40
3. Neyveli Lignite Corpn., Neyveli	70
4. Hindustan Steel Ltd., Rourkela	120
5. Madras Fertilisers Ltd., Manali	176
6. *Bokaro Steel Ltd., Bokaro	3
7. *HSL, Durgapur, Rourkela and Bhilai	13
8. *Indian Iron & Steel Co. Ltd., Burnpur	4
9. †Indian Farmers' Fertiliser Co-operative Ltd., Kandla & Kalol	[illegible]
10. Single Superphosphate Factories	—
TOTAL (Public Sector) ..	[illegible]
Private Sector	
1. Coromandel Fertilisers, Vizag	81
2. E.I.D. Parry, Ennore ..	[illegible]
3. Gujarat State Fertilisers Co. Ltd., Vadodara	[illegible]
4. Indian Explosives Ltd., Panki, Kanpur	200
5. Mangalore Chemicals & Fertilisers, Mangalore	160
6. New Central Jute Mills, Varanasi	10
7. Shriram Chemical Industries, Kota	122
8. Southern Petrochemical Industries, Tuticorin ..	258
9. Zuari Agro Chemicals Ltd., Sancoale	111
10. *Tata Iron & Steel Co. Ltd., Jamshedpur	4
11. DMCC, Ambernath	—
12. Orissa Fertilisers & Chemicals, Rourkela	—
13. Single Superphosphate Factories	—
TOTAL (Private Sector) ..	[illegible]
(A) GRAND TOTAL (Projects in production) ..	[illegible]

* Byproduct of ammonium sulphate factories. † Coop. sector.

The total installed capacity of nitrogenous fertiliser lustry (in terms of plant nutrient-N) as at the end of 76-77 was of the order of 3·028 million tonnes. The re of public sector and co-operative sector units was 60,000 tonnes.

The capacity under implementation stage is estimated 2·070 million tonnes. In addition to this, the capacity proved in principle, amounted to 1·637 million tonnes.

The break-up of the existing capacity in both the tors as well as that under implementation stage is set in the Table No. III.

osphatic Fertilisers : The total production of both aight and complex phosphatic fertilisers which shows a rginal fall from about 331,000 tonnes in 1974-75 to out 323,000 tonnes in 1975-76, due to high prices in the outs were covered in the subsequent years and the oduction increased to about 670,000 tonnes of P_2O_5 in 77-78.

The share of straight phosphatic fertiliser during 1977- is about 155,000 tonnes of P_2O_5.

The installed capacity of phosphatic fertilisers in both sectors is set out in Table No. III.

B) PROJECTS UNDER IMPLEMENTATION

(As on 18th April, 1978)

Name of Factory	Capacity in terms of nutrient ('000 tonnes)	
	N	P_2O_5
blic Sector		
FCI :		
(a) Haldia	152	75
(b) Nangal (expansion) ..	152	—
(c) Ramagundam	228	—
(d) Sindri (modernisation) ..	129	—
(e) Talcher	228	—
(f) Trombay IV	75	75
(g) Sindri (Rationalisation)	—	156
(h) Trombay V	130	—
†Indian Farmers' Fertiliser Co-op. Ltd., Phulpur ..	228	—
National Fertilizers Ltd. :		
(a) Bhatinda	235	—
(b) Panipat	235	—
Hindusthan Copper Ltd. ..	—	90
Hindustan Zinc Ltd., Debari*	—	26
TOTAL (Public Sector) : ..	1,792	396

* The capacity is not taken into account as the produc- n will be in the form of phosphoric acid (an inter- ediate) to be used by other fertiliser units.

Name of Factory	N	P_2O_5
ivate Sector		
Kothari (Madras) Ltd., Ennore	5	—
Gujarat Narbada Valley Fertilisers Co., Chavanna ..	273	—
TOTAL (Private Sector) ..	278	—
(B) GRAND TOTAL (Projects under implementation)	2,070	396

(C) PROJECTS UNDER ACTIVE CONSIDERATION

(As on 1st April, 1978)

Name of Factory	Capacity in terms of nutrient ('000 tonnes)	
	N	P_2O_5
Public Sector :		
1. FCI :		
Korba	228	—
2. Rashtriya Chemicals & Fertilisers :		
West Coast I	343	—
West Coast II	343	—
3. Hindustan Fertiliser Corpn. Ltd :		
Assam III	152	—
4. IFFCO† :		
West Coast III ..	343	—
TOTAL (Public Sector) ..	1,409	—
Private Sector :		
1. Nagarjuna Fertilisers, Kakinada	228	82
2. M.P. Agro-Morarji Fertilisers Ltd., Meghnagar	—	50
TOTAL (Private Sector) ..	228	132
(C) GRAND TOTAL (Projects approved in principle and under active consideration)	1,637	132
All India Capacity **(A + B + C)**	6,735	1,442

† Co-operative Sector.

Various types : Following table shows the production of various types of fertilisers with the number of units and their installed capacity.

TABLE IV ('000 tonnes)

Type of Fertiliser	1976-77		
	No. of units	Installed capacity	Actual production
Amm. Sulphate	11	968	601
Amm. Phosphate Sulphate	2	236	157
Calcium Amm. Nitrate ..	2	800	640
Nitro-Phosphate	1	180	232
Urea	18	4,841	2,931
Amm. Chloride	2	66	27
Di-Ammonium Phosphate	2	136	87
Superphosphate	28	1,300	800
Triple Superphosphate ..	1	27	—
Urea Amm. Phosphate ..	2	498	294
Complex NPK	4	1,357	636

Manures and Composts

The Ministry of Agriculture has taken up a very comprehensive programme for the development of organic manures in the country in view of its importance in building up of soil fertility and also because of constraints in the availability of fertilisers. The programmes are :

(*i*) Preparation of rural and urban compost ; (*ii*) distribution of sewage and sullage ; (*iii*) intensification of green manuring programme; and (*iv*) establishment of *gobar* gas plants.

Under the Fifth Five Year Plan, it is proposed to set up 27 compost plants in cities having a population of more

TABLE V

CONSUMPTION OF FERTILISERS

	1972–73	1973–74	1974–75	1975–76	1976–77
Nitrogen (N)	1,839	1,829	1,765	2,148	2,456
Phosphatic (P_2O_5)	581	650	472	467	635
Potassic (K_2O)	347	360	336	278	319

than 0·3 million. By the end of 1973-74, about 7,000 *gobar* gas plants were set up in various parts of the country. An ambitious programme for the establishment of 100,000 *gobar* gas plants had been included under the Fifth Five Year Plan.

Energy Equivalent: The energy equivalent of 24 million litres of kerosene can be made available if all the 400 million tonnes of wet cattle dung, now being used as manure, is converted into biogas. Besides conversion of the dung through biogas plants will yield 236 million tonnes of manure of enriched nitrogen quality.

The 1966 census estimated the cattle population in India at 230 million with an estimated 800 million tonnes of wet dung produced annually. However, a recent study by the National Council of Applied Economic Research (NCAER) estimated the availability of wet dung at 1,355 million tonnes. According to NCAER 33 per cent of the total cattle dung — approximately 400 million tonnes — is used as manure and the rest as fuel.

In the rural areas the per capita consumption of cattle dung cake is around 9 kgs. per month. The average rural household therefore consumes 540 kgs. a year. In urban areas the average per capita consumption of dung cakes is 36 kgs. a year.

Urban Compost: Under the technical guidance of the Gujarat Agro-industries Corporation, a **Compost manure plant** has been put up by the Vadodara Municipal Corporation at Atladara. It has an installed capacity to process 125 to 150 tonnes of garbage per day. Such plants are also being put up in various other cities.

During 1976-77 the total fertiliser consumption, was 3·41 million tonnes. Of this 2·46 million was nitrogen, 0·63 million tonnes phosphate and 0·32 million tonnes potash.

The levels of consumption of fertilisers per hectare of agricultural land in India during 1975-76 are far below those of other countries (Figures in kgs.).

Country	N	P_2O_5	K_2O	Total
Asia	10·0	3·7	1·7	15·4
China (Taiwan)	13·3	3·7	1·2	19·2
Japan	106·3	103·9	86·2	296·4
Rep. Korea ..	192·0	97·1	66·3	355·4
India	11·3	2·5	1·5	15·3
Philippines ..	15·5	4·6	5·8	25·9

Apart from inadequate marketing facilities and lack of purchasing power of the farmers, natural calamities and inadequate irrigation facilities, high prices, inadequate imports, inadequate promotion measures, lack of adequate credit facilities in several areas, and insufficiency of retail points at convenient distance from the various rural points contributed to the decline in fertiliser consumption. For the Fifth Plan period, the overall growth rate of NPK is envisaged at 21·7 per cent per annum.

The following table portrays vividly how actual consumption fell short of targeted levels since 1969–70.

(Million

Year	Target	Actual
Fourth Plan :		
1969–70	2·80	[illegible]
1970–71	3·30	[illegible]
1971–72	4·03	2·66
1972–73	4·67	2·77
1973–74	5·50	2·84
Fifth Plan :		
1974–75	4·39	2·57
1975–76	5·08	2·[illegible]
1978–79@	4·80	3·41

@ 1978-79 relates to the revised figures as per
ment of "Fifth Five Year Plan — 1974-79"
Commission, New Delhi.

Five States, namely Andhra Pradesh, Maharash
Uttar Pradesh, Tamil Nadu, and Punjab account for m
than 59·81 per cent of total consumption. The S
having very low consumption of fertiliser per
land are Madhya Pradesh, Assam, Rajasthan, Jamm
Kashmir, Himachal Pradesh, Orissa, Tripura and M

The States which showed a sharp increase in co
tion of nitrogenous fertilisers during 1976-77
Pradesh, Punjab, Haryana, Rajasthan, Mahara
Kerala, Gujarat, Goa, West Bengal and Orissa. On
other hand Tamil Nadu and Assam recorded a
decline. Statewise, the consumption of phosphatic
liser recorded a fall in Kerala and went up in Gujarat.

Pricing: In order to ensure a reasonable return
investment and facilitating the development and grow
the industry the Government have introduced a
retention prices of units in the nitrogenous fertiliser
try with effect from November 1, 1977. The system pr
for a fair ex-factory retention price per tonne of u
each plant based on a capacity utilisation of 80
and a combination of values and actuals in reg
consumption of raw materials and other imp

Imports: Higher production of fertilisers in the co
during the year 1976-77 has resulted in the savi
foreign exchange worth Rs. 1,080 million which
would have spent on imports.

The trend in imports of fertilisers is given in the
below:

('000 tonnes

Year	N	P	K	Total
1968–69	842	137	213	1,192
1969–70	667	94	[illegible]	881
1970–71	477	32	248	[illegible]
1971–72	481	248	[illegible]	[illegible]
1972–73	665	204	[illegible]	[illegible]
1973–74	659	215	[illegible]	[illegible]
1974–75	884	286	[illegible]	[illegible]
1975–76	906	361	[illegible]	[illegible]
1976–77	750	23	[illegible]	[illegible]

General

Potassium Fertilisers : To substitute potassium sulphate/chloride which is being imported at present, the Central Salt and Marine Chemicals Research Institute in Bhavnagar, Gujarat, has developed a process for manufacturing potassium chloride and potassium schoenite from mixed salts.

The Institute has set up a commercial plant at Kandla in the private sector having a capacity of manufacturing 1,000 tonnes of potassium chloride and 2,000 tonnes of potassium schoenite (epsom salt) annually.

Role of F.C.I. (Training) : F.C.I. has initiated a number of scientific and technological programmes for popularising the use of fertilisers: (*i*) Fertiliser Promotion and Agricultural Research Centre at Calcutta, to demonstrate the use of fertilizer; (*ii*) a Rice Production Training Centre was set up at Durgapur during 1972-73 to impart right technique of rice cultivation ; (*iii*) the F.C.I. has also taken up studies to assess the efficiency of slow release sulphur coated urea fertiliser, at the instance of FAO for plants under different climatic and soil conditions. With a view to producing fertiliser containing micronutrients, Fertiliser Corporation of India runs a training institute which provides refresher courses for all categories of employees. The Corporation is also implementing the Indo-German Fertiliser Education project to popularise the use of nitro-phosphate complex fertilisers to be manufactured at Haldia.

Research : Fertiliser Association of India near Jawaharlal Nehru University, New Delhi 110057, has set up a Fertiliser Institute (new Technical Division) which does research on the pathological problems of the industry, holds lectures, group discussions and publishes papers on the research done. The institute also holds courses in marketing from time to time. The Planning and Development Division at Sindri is engaged in providing project and engineering consultancy services for the new projects and diversification programmes besides its important role as a research and development organisation. The P. & D. developed their own know-how for the manufacture of catalysts used in the fertiliser industry and many of these catalysts are put to commercial use.

Consultancy & Engineering Services : P. & D. of F. C. I., FEDO of FACT and EIL are the three Indian organisations engaged in the detailed designing & engineering, erection & commissioning of many of the fertiliser projects set up in the country since 1966. These organisations, especially P. & D. has developed enough expertise in this field. There are other consultancy organisations for specific areas.

Many sophisticated equipments, needed for the industry, are locally fabricated. Now the foreign exchange requirement for the installation of fertiliser plants has come down to about 30 per cent.

Some Large Units:

1. Gujarat State Fertilizers Co. Ltd., Fertilizer Nagar, near Vadodara, Gujarat.
2. E.I.D.-Parry Ltd., Dare House, P.B. No. 12, Madras 600001.
3. Coromandel Fertilisers Ltd., 126, Sarojini Devi Rd., Secunderabad 500003, Andhra Pradesh.
4. Shriram Chemical Industries, 18, Kanchanjunga, Barakhamba Rd., New Delhi 110001.
5. Indian Explosives Ltd., 17/3, M. G. Marg, Kanpur 208001.
6. Zuari Agro-Chemical Ltd., Goa.
7. Southern Petro-Chemical Industries Corpn., Madras.
8. New Central Jute Mills Co. Ltd., Varanasi 221001, Uttar Pradesh.
9. Andhra Fertilisers Ltd., Tadepalle 534101, Andhra Pradesh.
10. M/s. Shaw Wallace and Co. Ltd., Avadi, Madras 600054.
11. Dharamsi Morarji Chemical Co. Ltd., Prospect Chambers, 317/21, Dr. D. Naoroji Rd., Bombay 400001.
12. Ralli Chemical Works, Magarwara, Uttar Pradesh.
13. D.C.M. Chemical Works, Naaz Building, 1, Jhandewalan, New Delhi 110055.
14. Phosphate Co. Ltd., 14, N. Subhas Rd., Calcutta 700001.
15. Jayshree Chemical and Fertilizer Ltd., Calcutta.
16. West India Chemical Ltd., Pune.
17. Mangalore Chemicals and Fertilisers Ltd., Mangalore.
18. Adarsh Chemicals & Fertilisers, Calcutta.

FILM INDUSTRY

THE Indian film industry ranks first in the world in terms of production, with an average of about 500 films a year. The industry earns annually about Rs. 2,250 million. Of this, about Rs. 78·70 million is in foreign exchange.

The industry employs about 200,000 persons. There are about 1,800 independent producers, most of them with units either too small or too unwieldy for economic working.

Production : For the first time in 1976 over 50 per cent of the films produced were made in colour. The breakdown is as follows : 1976—colour films 260, black & white films 247; 1977—colour films 340, black & white 217.

The film industry pays about Rs. 2,000 million every year to the Central Government exchequer in taxes mainly in the form of entertainment tax. Since entertainment tax is collected by the States they keep Rs. 1,920 million while the Central Government gets about Rs. 70 million. Entertainment tax varies from state to state. In most states it is about 70 to 80 per cent, while in Maharashtra it is as high as 120 per cent of the price of the admission ticket. Net box office collections during 1976 were about Rs. 3,000 million.

Film censorship : The 18-year-old censorship rules were replaced in 1978 by a new set which, it is claimed, would give more artistic freedom to film-makers. The objectives have now been defined to ensure that : (*a*) the medium of film remains responsible and sensitive to the values and standards of society, (*b*) artistic expression and creative freedom are not unduly curbed and (*c*) censorship is responsive to social change. The new guidelines also state that the board should ensure that films are judged in their entirety from the point of view of their overall impact and that they are examined in the light of contemporary standards of the country and the people to which the film relates.

No. of theatres and cinema houses (1976-77) : With 9,167 theatres (of which 3,322 are touring cinemas) there is an acute shortage of exhibition facilities. With this shortage, a handful of distributors and exhibitors are able to exercise control over the release of films, creating an artificial imbalance.

The number of cinema houses available — 12 for a population of one million — is among the lowest in the world. Theatre rentals are, therefore, heavy.

Finance : It is procured at exhorbitant rates of interest and projects are formulated on the basis of saleability of the stars, the director or the music director.

Films are generally made on borrowed money by independent producers who neither own a studio, nor have any security to offer. Interest rates are as high as 36 per cent to 60 per cent per annum.

The result is that several projects tend to remain incomplete. Of the 700 films launched in 1969, only 320 were completed and released. Of these, only 10 per cent paid a profit. Another 20 per cent broke even. The rest were flops.

Earnings : There has been a phenomenal increase in box office collections from Rs. 360 million in 1958 to about Rs. 3,900 million in 1976. Of the total box office intake 54 per cent goes to the exchequer by way of taxes and imports. The exhibitor gets 27 per cent, the producer 15 per cent and the distributor 4 per cent. The distributor is the one who generally has the biggest financial stake in a film, next to the producer.

STRUCTURE OF THE FILM INDUSTRY

Annual output of feature films	557
Number of studios in operation	63
Number of theatres 1976-77	9,167
Number of producers (approx.)	1,800
Number of distributors (approx.)	1,200
Number of persons employed in the industry	300,000
Number of laboratories	38
Number of cinemas per million population ..	12
Gross annual earnings	Rs. 3,900 million

FILMS PRODUCED IN INDIA (1970 to 1977)

Year	Black-and-white	Colour	Total
1970	311	84	395
1971	289	128	417
1972	236	165	401
1973	278	170	448
1974	225	210	435
1975	243	222	465
1976	267	240	507
1977	217	340	557

The production of Hindi feature films which was showing a downward trend since 1973 suddenly picked up from [illegible] films in 1976 to 134 in 1977. Among the regional films, Marathi, Malayalam, Oriya and Telugu showed a considerable increase in 1977 over the previous year. There was a marginal increase in Assamese, Gujarati, Kannada and Punjabi films, but there was a drop in the number of Tamil films.

National Awards : Under the National Awards scheme of the Government of India, 64 awards for excellence in various facets of film-making have been instituted. These include four "Swarna Kamals", 60 "Rajat Kamals" and cash prizes totalling Rs. 546,000. The prestigious **Dada Saheb Phalke** award for outstanding contribution to the cause of Indian cinema has been doubled now Rs. 20,000 to Rs. 40,000 besides a "Swarna Kamal" and a shawl.

The state governments of Maharashtra, Gujarat, Karnataka and Tamil Nadu have also instituted own annual state awards for films.

Filmfare Awards were instituted in 1953 and first presentation was made in 1954. These awards given annually by the 'Filmfare' magazine of Coleman & Co., Ltd., Bombay, publishers of the India' and Allied Publications.(For list of **Award Winner** see chapter on "Awards".)

Films Division : 24, Dr. Gopalrao Deshmukh Bombay 400026. The Films Division of the Ministry Information and Broadcasting produces and distributes newsreels, documentaries and other films for the information, education and instruction of the people. the end of 1976-77, the Films Division had produced 2,151 newsreels and 2,446 documentaries. The Division produces more than 200 films a year in English and in Indian languages.

Chief Producer : Mushir Ahmad.

Film Finance Corporation Ltd., 13–16, Regent Chambers, Nariman Point, Bombay 400021 : Set up by Government of India in 1960, the main objective promote the growth and development of good cinema. Since its inception it has financed 105 feature and documentary films.

It helps film societies by supplying films at nominal and also distributes 16 mm films to universities, colleges and industrial welfare centres.

FFC is the sole canalising agency for import of all foreign films. It also distributes imported films through its own network and imports all the raw stock requirements.

Chairman : Jagdish Parikh, *General Manager :* N. V. K Murthy.

Film and Television Institute of India, Law College Rd., Pune 411004.

The Institute conducts (*a*) A two year common course in cinema leading to specialisation in third year in Motion Picture Photography or Film Editing; (*b*) A one year course in Sound Recording and Sound Engineering; (*c*) A one year post diploma course in Film Direction/TV Production. Only diploma holders in Motion Picture Photography or Film Editing are eligible for admission to the post diploma course in Film Direction/TV Production.

Refresher Courses : Short term refresher courses film appreciation and screen play writing are sometimes organised.

Television Training is imparted in (1) programme production, (2) studio technical operations, (3) T films and (4) TV graphics and design.

Director : Jagat Murari.

National Film Archive of India, Law College Rd., Pune 411004. The Archive preserves the heritage national and international cinema for study, research and reference. Its collection in December 1977 consisted 1,013 Indian and 722 foreign films, 7,068 books, 182 periodicals, 1,082 disc-records, 12,928 photographic stills, 2,601 wall posters, 7,309 scripts, 2,167 song booklets, 1,962 pamphlets and folders on films.

Notable among its acquisitions are several silent and talkies made in the early days of the Indian industry as well as recent award winning Indian foreign films.

The Archive also makes available film classics and related literature to film students, research workers and film societies for study purposes.

Curator : P. K. Nair.

Children's Film Society, Hingorani House, Dr. Annie Besant Rd., Bombay 400018. The Society has a 16mm library both in Bombay and Delhi and films can be borrowed on a rental. Concessional rate is allowed for educational and welfare organisations. The Society's films are shown by the Central and State Governments through their publicity vans in rural areas. It has so far acquired about 183 films, including some foreign children's films.

Acting Chairman : Mrs. Kamini Kaushal ; *Chief Executive Officer :* Shri Jagadish Banerjee.

Central Board of Film Censors, 91, Walkeshwar Rd., Bombay 400006 : A statutory body set up under the Cinematograph Act, 1952, the Board sanctions films for public exhibition. During 1977 the Board examined 2,996 films. It granted 1,071 'U' and 71 'A' Certificates to imported films and 1,733 'U' and 30 'A' certificates to Indian films.

Chairman : K. L. Khandpur.

Hindusthan Photo Films Manufacturing Co., Ltd., (details in the chapter on the Government of India Undertakings).

Indian Motion Pictures Export Corporation Ltd. (IMPEC), D-5, Shivsagar Estate, Dr. Annie Besant Road, Worli, Bombay-400 018 : Was set up in the public sector in September, 1963. It is now a wholly owned Government of India Undertaking.

IMPEC was appointed as a sole canalising agency in February, 1977, for the export of Indian films in place of Film Finance Corporation Ltd.

IMPEC is also entrusted with the task of organising film markets at the Annual International Film Festivals held in India. This has greatly contributed in boosting the exports of Indian films, cinematographic equipments, theatre furnitures & fittings etc.

Chairman : S. K. Kooka.

EXPORTS :

The export turnover has risen from Rs. 950,000 in 1973–74 to Rs. 3·29 million in 1976–77 and reached Rs. 4·00 million in 1977–78 according to Indian Motion Pictures Export Corporation.

IMPORTS :

The Government of India have renewed the agreement with the Motion Pictures Export Association of America (MPEAA) in April 1975. American films as well as films from other film producing countries of the world are being imported through the Film Finance Corpn. Ltd., Bombay.

FILM ASSOCIATIONS

Indian Motion Picture Producers' Association, Sandhurst Bldg., Sardar Vallabhbhai Patel Rd., Bombay 400004 : All problems connected with film production and disputes arising therefrom are taken care of by IMPPA. The IMPPA also acts as the central agency for registration of film titles, procurement of raw stock, make-up materials, magnetic films and other studio requirements.

President : Shreeram Bohra ; *Sr. Vice-President :* Gulshan Rai ; *Vice-President :* R. H. Wadia ; *Hon. Treasurer :* T. C. Dewan ; *Secretary :* Supran Sen.

Film Producers' Guild of India Ltd., Shantshree, S. S. Rao Rd., Bombay 400012 : Established in 1954, the Guild has a membership of over 100 active, regular producers. The organisation looks after all their problems as also difficulties arising out of film production. It makes representations to the Union and State Governments seeking redress of their grievances as also against levies, impositions and taxes. It also ensures regular supplies of materials required in the business of film production.

President : Subodh Mukerji ; *Vice-Presidents :* Ramanand Sagar, Vijay Anand, Atma Ram ; *Secretary :* R. V. Ishwar.

Cinematograph Exhibitors' Association of India, Flat No. 22/23B, Vellard View, Tardeo Rd., Bombay 400034 : Established on July 1, 1942, the CEAI is registered under the Indian Companies Act. Its main objectives are to help develop the exhibition trade in films and to cooperate with distributors and their organisations to ensure smooth exhibition of films. The organisation takes measures conducive to the interests and welfare of members, in co-ordination with various interests in the film industry. The CEAI has over 1,250 members on its rolls.

President : M. M. Marwah ; *Secretary :* T. K. S. Mani.

Indian Motion Picture Distributors' Association, Vijay Chambers, Opp. Dreamland Cinema, Tribhuvan Rd., Bombay 400004 : The IMPDA ensures co-ordination among exhibitors, producers and distributors of motion pictures and takes care of the interests of distributors, in particular. It has a membership of 600.

President : L. N. Nagwekar ; *Vice-President :* N. B. Kamat ; *Treasurer :* Laxman K. Chhabra ; *Hon. Secretaries :* G. L. Naik and Kanti K. Sheth.

JUTE INDUSTRY

BRIEF HISTORY

THE Indian jute mill industry, born in 1855 at Rishra on the Hooghly, 21 kms. upstream from Calcutta, was a natural evolution of the centuries old cottage industry of Lower Bengal based on hand spinning and weaving of jute. By 1885 the Indian industry with its supremacy in the international markets firmly established, had 6,700 looms in production. Loomage shot up to 30,685 in 1909, to 50,354 in 1927 and to 65,762 in 1949. For a decade or so the industry produced the simplest constructions of sacking cloth. Product diversification continued with webbings, cotton bagging, linoleum hessian, jute carpets and rugs, carpet backing cloth, and decorative jute fabrics gradually added to the range. The industry has already modernised up to the spinning stages of manufacture. This, coupled with the improved technology and other rationalisation measures adopted by the industry, has helped it to increase production without increasing loomage.

LOCATION OF THE INDUSTRY

Figures given are number of jute mill companies in operation on Jan. 1, 1978. West Bengal 56 ; Andhra Pradesh 4 ; Bihar 3 ; Madhya Pradesh 1 ; Uttar Pradesh 3 ; Assam 1 ; All India 68.

Area in hectares under raw jute cultivation : 1971-72 : 818,600 ; 1972-73 : 700,000 ; 1973-74 : 792,400 ; 1974-75 : 673,100 ; 1975-76 : 586,800.

The cultivation of raw jute is concentrated in three States — West Bengal, Bihar and Assam. (For production refer to the Chapter on " Agriculture ".)

Public Sector : Negligible (only a small mill in Assam has gone into production).

No. of Persons Employed : Over 2 million farmers in jute cultivation and about 400,000 persons in jute industry and trade.

No. of Strikes & Lock-outs : 1973 : 142 ; 1974 : 110 ; 1975 : 73 ; 1976 : 24.

No. of Man-days Lost : 1973 : 1·26 million ; 1974 : 5·62 million ; 1975 : 8·77 million ; 1976 : 2·56 million.

Capital Investment in the Industry : about Rs. 3,000 million.

Average Annual Sales : about Rs. 5,000 million.

Ranking in the World Market : India is the largest producer of raw jute in the world, followed closely by Bangladesh.

PRODUCTION

Following is the production of jute goods for mills reporting to the Indian Jute Mills Association accounting for about 90 per cent of total industry (in '000 tonnes).

1971-72 : 1,138 ; 1972-73 : 1,044 ; 1973-74 : 936 ; 1974-75 : 939 ; 1975-76 : 1,136 ; 1976-77 : 1,040.

The all-India yield per hectare in bales (1 bale = 181·43 kgs.) : 1971-72 : 6·97 ; 1972-73 : 7·11 ; 1973-74 : 7·80 ; 1974-75 : 6·73 ; 1975-76 : 7·59 ; 1976-77 : 7·24.

CONSUMPTION

Per Capita Consumption of Jute Goods : (in kg)* : India 0·72, U.K. 2·74, USA 2·83, Japan 1·30, Australia 7·24, USSR 0·36.

Distribution (Million bales)

	1974–75	1975–76	1976–77
Mills consumption ..	6·30	7·50	6·80
Exports..	0·40	0·10	0·05
Domestic consumption	0·30	0·20	0·25
Total	7·00	7·80	7·10

EXPORTS : Jute goods are the country's largest foreign exchange earner. The table alongside gives the exports of jute and the foreign exchange earned in the last three years.

Year (April–March)	Exports ('000 tonnes)	Value (Rs. in million)
1974-75	567	2,941·8
1975–76	479	2,223·6
1976-77	428	1,863·5

GENERAL

Yield per hectare : The average yield of jute in India is about 1,314 kgs. per hectare during 1976-77.

Loomage : The exact world loomage is not known, b rough estimate puts it at 109,275. The total number o looms in India on January 1, 1976, was 44,594. Bangladesh was last reported to have 25,250 looms.

Output Target : The production target for jute an mesta for 1977-78 was fixed at 7·856 million bales, comprising of 6·556 million bales of jute and 1·300 million bales of mesta by the Indian Jute Development Council. However, the Planning Commission fixed the target raw jute production at 7·364 million bales for 1977-78. The revised estimated production for 1976-77 was 7·[illegible] million bales comprising of 5·347 million bales of jut and 1·738 million bales of mesta.

Directorate of Jute Development (Govt. of India) MS Bldgs., Nizam Palace Campus, 234/4, Acharya J. Rd., Calcutta 700020.

Office of the Jute Commissioner (Govt. of India) 20, British Indian St., Calcutta 700001.

Training : The industry has provided for elaborat and scientific technical training in the spinning and weavin of jute, quality control of jute goods, and maintenanc of machinery at the **Institute of Jute Technology** a 35, Ballygunge Circular Rd., Calcutta 700019.

Research : The industry's needs for research an development are served by the **Indian Jute Industries Research Association** (*IJIRA*), 17, Taratola Rd Calcutta 700053, which takes care of (1) Basic research, Applied investigations, (3) Technical service, (4) Produc development, and (5) Raw jute development.

Jute Agricultural Research Institute : Nilganj, Barrackpore, West Bengal also researches into the problem of cultivation of raw jute and allied fibres.

Ten Largest Mill Companies (on the basis of loomage are all situated in West Bengal as on Jan. 1, 1976.

	Names of Mills	*Address*	*No. of Looms*
1.	New Central Jute Mills Co. Ltd.	Budge Budge, 24 Parganas	1,569
2.	National Co. Ltd.	Sankrail, Howrah	1,464
3.	Ganges Manufg. Co. Ltd.	Bansberia, Hooghly	1,297
4.	Hukumchand Jute Mills Ltd.	Hazinagar, 24 Parganas	1,372
5.	Fort Gloster Industries Ltd.	Bauriah, Howrah	1,219
6.	Anglo India Jute Mills Co. Ltd.	Kanknarrah, 24 Parganas	1,177
7.	Shree Hanuman Jute Mills.	Ghusuri, Howrah	1,145
8.	Titaghur Jute Factory Co. Ltd.	Titaghur, 24 Parganas	1,135
9.	Barnagore Jute Factory Co. Ltd.	Barnagore, Calcutta 700035	[illegible]
10.	Samnuggur Jute Factory Co. Ltd.	Bhadreswar, Hooghly	[illegible]

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* Based on internal consumption for 1969 and population as published in The Statesman Year Book, 1967-68

Note : Figure is for looms actually installed. Figures of loomage quoted under " Brief History " denote the number of looms registered, [illegible] directly comparable.

LAC INDUSTRY

BRIEF HISTORY

LAC is a resinous substance secreted as a protective coating by an insect known scientifically as "kerria lacca". The insect, about 0·5 mm. long, belonging to the family of scale insects and mealy-bugs, is a parasite which lives and thrives on the sap of certain trees, bushes, shrubs and creepers which are called the 'lac hosts'.

There are four crops of lac named after the Hindu months in which the collection of each crop commences. These are 'Baisakhi' and 'Katki' from one strain of the insect (Rangeeni) and 'Jethwi' and 'Aghani' from another strain (Kusmi). Each Rangeeni female produces 0·03 g. of somewhat dark lac, while each Kusmi female makes about 0·07 g. of a more valuable light-coloured lac.

LOCATION OF THE INDUSTRY

The lac factories are located in the following five States with the number of units in brackets: Bihar (83), West Bengal (87), Madhya Pradesh (16), Maharashtra (6) and Uttar Pradesh (6). (Total 198 units.)

No. of Persons Employed: Bihar: 1,979; West Bengal: 2,209; Madhya Pradesh: 127; Maharashtra: 103; Uttar Pradesh: 95 (Total 4,513).

In addition about 4 to 5 million *Adivasis* are gainfully employed in the rearing and collection of *lac* from forests.

PRODUCTION

The lac insect is found in most of the near and far eastern countries but is commercially exploited only by India and Thailand. India's share in world production is about 50 per cent and Thailand's more than 40 per cent.

The all-India production of lac over the last four years in tonnes was as follows: 1973-74: 19,258; 1974-75: 24,690; 1975-76: 21,767; 1976-77: 23,870.

The final report issued by the Directorate of Lac Development, Ranchi, puts the total yield of 'Baisakhi' lac crop in 1976-77 at 16,485 tonnes, of 'Jethwi' lac at 873 tonnes, of 'Katki' lac at 4,605 tonnes and of 'Kusmi' lac at 1,907 tonnes.

Bihar has the highest production, 15,559 tonnes in 1976-77 followed by Madhya Pradesh 3,330 tonnes, West Bengal 2,456 tonnes and Uttar Pradesh 2,000 tonnes.

CONSUMPTION

India's consumption in tonnes over the last three years was as follows: 1972-73: 957; 1973-74: 1,175; 1974-75: 1,267; 1975-76: N.A.

IMPORTS

Imports of lac over the last three years are given below:

Year	Quantity in quintals	Value in Rupees
1974-75	4,578·1	5,953,607
1975-76	nil	nil
1976-77	95	34,446

EXPORTS

Indian lac being indisputably the best in quality is sold to over a hundred countries. Over 85-90 per cent of the total production is exported. The largest buyers are U.S.A., U.S.S.R., and U.K. The export figures are as follows:

(In tonnes)

Country	1975-76	1976-77
U.S.A.	816·3	917·9
U.S.S.R.	1,354·2	761·8
West Germany	1,245·5	535·7
U.K.	945·3	823·5
Japan	39·0	78·1
Australia	116·9	152·4
France	90·5	63·8
Brazil	121·0	323·1
Italy	194·6	154·7
Other Countries	2,901·2	3,280·8
Total	7,824·5	7,081·8
Total value in Rupees ..	127,544,102	97,563,350

Shellac Export Promotion Council with headquarters at 14/1B, Ezra St., Calcutta 700001.

GENERAL

For the development and marketing of lac a **Directorate of Lac Development** has been created under the Department of Agriculture of Government of India with headquarters at Circular Road, Ranchi 834001, Bihar. The Government of India has also constituted the **Indian Lac Development Council** to advise it on all matters relating to development of lac cultivation, trade and industry.

The **Bihar Co-operative Lac Marketing Federation,** Ranchi, supports prices when they fall below economic levels.

Research: To improve the technique of lac cultivation and to find new uses are the responsibilities of the **Indian Lac Research Institute** at Namkum, Ranchi, Bihar. This Institute is under the control of the Indian Council of Agricultural Research and provides training facilities.

Important Uses: Lac is used in the manufacture of French polish, gramophone records, electrical insulating materials, shellac moulded articles, micanite, hats, grinding wheels, adhesives, cements, wood turning, metal enamelling, printing ink etc.

MAN-MADE FIBRE INDUSTRY

BRIEF HISTORY

THE Industry in India is hardly 30 years old. First unit to manufacture viscose rayon filament yarn, The Travancore Rayons Ltd., was incorporated in 1945. The actual production started in 1950.

In 1664 Robert Hooke predicted the possibility of viscose-fibre, but the reality came into being only in 1884 when the father of rayon industry, Count Hilarie de Chadonnet, produced rayon from nitro-cellulose solution. Commercial production started in France in 1891. But polymer 66 and 6 in nylon was only discovered in Germany in 1938.

In 1941, chemists J. R. Whinfield and J. T. Dickson discovered polyester. I.C.I. developed and produced the fibre commercially in U.K. and became an exclusive licencee for polyester fibre throughout the world except U.S. In the earlier days it was the cellulosic synthetic fibre which made the market, but in the last 20 years the more versatile non-cellulosic synthetic fibres have made tremendous head-way.

Position in India : Today there are 9 acetate and rayon filament yarn units with total capacity of 38,664 tonnes per annum; 2 rayon staple fibre units with 71 tonnes annual capacity; 3 rayon tyre cord units w 19,000 tonnes annual capacity and, 16 synthetic fibre staple and tyre cord units. Letters of intent were issued another 16 applicants in 1976-77.

Fabric Production : An estimated 1,200 million metre annually.

Investment & Employment : More than Rs. 2, million and employs directly about 30,000 persons. provides raw material for the operation of 110,000 power looms and more than 400,000 handlooms.

LOCATION OF INDUSTRY

Synthetic Fibre Units in India

(in million kgs.)

Name of the unit*	Year of commence-ment	Licensed capacity per annum
Nylon filament yarn		
J.K. Synthetics Ltd., Kanpur, U.P. (Kota, Rajasthan)	1962	5·38
Garware Nylons Ltd., Bombay, Maharashtra (Pimpri, Pune, Maharashtra)	1962	3·35
Nirlon Synthetic Fibres & Chemicals Ltd., Bombay, Maharashtra (Goregaon, Bombay, Maharashtra)	1962	3·53
Modipon Ltd., Modinagar, U.P. (Modinagar, Uttar Pradesh)	1968	4·76
Century Enka Ltd., Bombay, Maharashtra (Bhosari, Pune, Maharashtra)	1969	2·34
Baroda Rayon Corpn. Ltd., Bombay, Maharashtra (Udhna, Gujarat) ..	1974	2·44
Shree Synthetics Ltd., Ujjain, Madhya Pradesh	1972	1·74
Stretch Fibres (India) Ltd., Bombay, Maharashtra (Nagpur, Maharashtra)	1973	0·54
Arthur Import & Export Co., Bombay, Maharashtra	—	0·80
Guptalon Ltd., Ludhiana, Punjab	—	1·00
Total ..	—	25·88
Nylon staple fibre		
J.K. Synthetics Ltd., Kanpur. U.P. (Kota, Rajasthan)	1971	1·35
Arthur Import & Export, Bombay, Maharashtra	—	0·30
Total ..	—	1·65
Nylon tyre cord		
J.K. Synthetics Ltd., Kanpur, U.P. (Kota, Rajasthan)	1972	1·60
Nirlon Synthetic Fibres & Chemicals Ltd., Bombay, Maharashtra (Goregaon, Bombay, Maharashtra)	1971	2·19
Shriram Fibres Ltd., New Delhi (Madras, Tamil Nadu)	1975	3·00
National Rayon Corpn. Ltd., Bombay, Maharashtra (Kalyan, Maharashtra)	1975	2·20
Baroda Rayon Corpn. Ltd., Bombay (Udhna, Gujarat)	—	3·00
Total ..	—	11·99
Acrylic staple fibre		
J.K. Synthetics Ltd., Kanpur, U.P. (Kota, Rajasthan)	—	4·00
Indian Petro-chemical Corpn. Ltd., Vadodara (Gujarat)	—	12·00
Total ..	—	16·00
Polyester staple fibre		
Bongaigaon Refineries, Assam	—	30·00
Chemicals & Fibres of India Ltd., Bombay, Maharashtra (Thane, Maharashtra)	1965	6·10
The Ahmedabad Manufacturing & Calico Printing Co. Ltd., Vadodara, Gujarat	1974	6·10
Swadeshi Polytex Ltd., Ghaziabad (Kavinagar, Ghaziabad, Uttar Pradesh)	1973	6·10
Indian Organic Chemicals Co. Ltd., Bombay, Maharashtra (Manali, Tamil Nadu)	1973	6·10
J.K. Synthetics Ltd., Kanpur, U.P. (Kota, Rajasthan)	1972	[illegible]
Total ..	—	[illegible]

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* Location of the factories is shown in brackets.

Synthetic Fibre Units in India — *Contd.*

(in million kgs.)

Name of the unit*	Year of commencement	Licensed capacity per annum
Polyester filament yarn		
Nirlon Synthetic Fibres & Chemicals Ltd., Bombay, Maharashtra, (Goregaon, Bombay, Maharashtra)	1967	0·91
J.K. Synthetics Ltd., Kanpur, U.P. (Kota, Rajasthan)	1967	0·96
Garware Nylons Ltd., Bombay, Maharashtra (Pimpri-Pune-Maharashtra) ..	1973	0·57
Modipon Ltd., Modinagar, U.P. (Modinagar, U.P.)	1973	0·57
Shree Synthetics Ltd., Ujjain	1973	0·36
Baroda Rayon Corpn. Ltd., Udhna	1976	0·57
Petrofils Corpn. Ltd., Vadodara	—	3·50
Century Enka Ltd., Bombay	1977	0·36
Total ..	—	7·80
Polypropylene staple fibre		
Neomer Ltd., Vadodara (Gujarat)	1977	6·00
Total ..	—	6·00

Rayon Units in India

Sirsilk Ltd., Sirpur, Kagaznagar, Andhra Pradesh ; The Baroda Rayon Corpn. Ltd., Udhna, Surat Dist., Gujarat ; The Indian Rayon Corpn. Ltd., Veraval Rd., Junagadh, Gujarat ; Travancore Rayons, Rayanpuram, Kerala ; Gwalior Rayon Silk Manufg. (Wvg.) Co., Ltd., Birlagram, Nagda, Madhya Pradesh ; Century Rayon, Murbad Rd., Shahad, Kalyan, Thane Dist., Maharashtra; Shriram Rayons, Shrirampur, Industrial Area, Kota, Rajasthan ; South India Viscose Ltd., Sirmugai, Mettupalayam, Tamil Nadu ; J. K. Rayons, Jaykaypur, Kanpur, Uttar Pradesh ; Kesoram Rayon, Tribeni, Hooghly Dist., West Bengal.

PRODUCTION : Polyester staple fibre production figures (tonnes) for the last three years were : 1975 : 14,320 ; 1976 : 21,060 ; 1977 : 21,500.

Production of Man-made Fibres in India : 1977

Yarn/Fibre	Production in tonnes
(A) *Cellulosics :*	
(*a*) Viscose Filament Yarn	40,060
(*b*) Viscose Staple Fibre	86,850
(*c*) Acetate Filament Yarn	2,180
(*d*) Acetate Staple Fibre	230
(*e*) Viscose Tyre Yarn	N.A.
Total Cellulosics	129,320
(B) *Synthetics*	
(*a*) Nylon Filament Yarn	15,632
(*b*) Nylon Tyre Cord	6,179
(*c*) Polyester Filament Yarn	3,911
(*d*) Polyester Staple Fibre	21,503
Total Synthetics	47,225
Grand Total (Cellulosics & Synthetics) ..	17,010

Polyester Filament Yarn Unit : The Rs. 380 million plant being set up by the Petrofils Co-operative Limited in the IPCL complex near Vadodara has commenced. It has annual capacity of 3,500 tonnes and is a joint venture between the Central Government and weavers' co-operative societies.

The combined annual licensed capacity for polyester yarn, including Petrofils is placed at 7,334 tonnes. The licensed capacity of nylon has increased to 25,880 tonnes.

Per Capita World Consumption of man-made fibre in 1974 (the latest available) was as under (figures in kg.) : U.S.A. 14·4 ; Canada 11·7 ; U.K. 9·3 ; Germany 11·4 ; France 7·5 ; Germany DDR : 16·0 ; The Netherlands : 7·6 ; Japan 7·0 ; Australia 12·5 ; Czechoslovakia 8·8 ; Switzerland 10·4 ; China 0·3 ; India 0·2.

Production of Man-made Fibres (India V/s World)

(million kgs.)

Year	India Man-made fibres	World Man-made fibres
1965	75·1	5,469
1975	152·3	10,638
1976	165·4	12,169
1977	170·1	12,243

EXPORTS

During 1973-74 a 300 per cent rise in the exports of rayon and synthetic textiles was recorded. The exports amounted to Rs. 332·4 million against Rs. 111 million in 1972-73. But it slumped to Rs. 200 million in 1974-75 and further down to Rs. 180 million in 1975-76. Target of export set for 1976-77 is Rs. 350 million.

Export Promotion Council: The Silk and Rayon Textiles Export Promotion Council (Resham Bhavan, 78, Vir Nariman Road, Bombay 400020).

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* Location of the factories is shown in brackets.

RAW MATERIALS BASIC CHEMICALS

The principal raw materials required for manufacture of rayon filament yarn and staple fibre are wood pulp, caustic soda, sulphuric acid, carbon disulphide and zinc. For acetate yarn and staple fibre, the primary raw materials are alcohol and cotton linters. Other materials used are acetic acid, acetic acetone and ethyl acetate. The wood pulp requirement is met from indigenous sources, but the pulp for tyre cord grade yarn is largely imported. There are immense possibilities for using cotton linters, jute stocks and bagasse for manufacture of wood pulp. There are five units licensed to produce Rayon grade pulp. Their names, locations of factory and production capacity in tonnes per annum respectively are as follows : (1) Gwalior Rayon Mfg. & Wvg. Co. Ltd. (Nagda 456335 & Mavoor 673661) 60,000 ; (2) Harihar Polyfibres (Harihar 577601) 36,000; (3) South India Viscose Ltd. (Sirumugai 641302) 21,600 ; (4) Baroda Rayon Corpn. Ltd. (Udhna 394210) 30,000 ; (5) Andhra Pradesh Industrial Development Corpn. (Hyderabad 500001) 26,250 ; Total : 173,850 tonnes.

The three main sources of raw materials for the manufacture of synthetic organic chemicals are (*i*) by-products of coal carbonisation and coal-tar, distillation, (*ii*) alcohol, (*iii*) petroleum and natural gas and their derivatives.

The main raw materials for the manufacture of polyester fibres are dimethyl terephthalate (DMT) and ethylene glycol. Since the Gujarat State Fertilizer Corpn. manufacture caprolactum and Indian Petro-Chemicals Corpn. manufacture D.M.T. and oxylene, the availability of raw materials indigenously has considerably improved. Mono ethylene glycol is produced by NOCIL and also by IPCL.

CELLULOSICS MANUFACTURE

Viscose Filament Yarn : There are at present 8 units engaged in the production of viscose filament yarn having a total licensed and installed capacity of 39,690 tonnes and 39,585 tonnes per annum as per details given below :—

Name of the Unit	Location	Licensed capacity per annum (tonnes)	Installed capacity per annum (tonnes)
Baroda Rayon Corporation Ltd.	Udhna (Gujarat State)	3,000	3,000
Century Rayon	Shahad-Kalyan (Maharashtra)	7,000	7,000
Indian Rayon Corporation Ltd.	Veraval (Gujarat State)	4,000	5,000
J. K. Rayons ..	Kanpur (Uttar Pradesh)	4,000	3,650
Kesoram Rayon	Tribeni (West Bengal)	3,650	4,635
National Rayon Corporation Ltd.	Mohone-Kalyan (Maharashtra)	9,000	9,000
South India Viscose Ltd.	Sirumugai (Tamil Nadu)	4,000	4,000
Travancore Rayons Ltd.	Rayonpuram (Kerala)	5,040	3,300
TOTAL		39,690	39,585

Viscose Staple Fibre : At present there are four units having licensed and installed capacity of 40,000 tonnes and 89,000 tonnes per annum as under :—

Name of the Unit	Licensed capacity per annum (tonnes)	Installed capacity per annum (tonnes)
The Gwalior Rayon (*i*) Nagda (Madhya Pradesh) (*ii*) Mavoor (Kerala)	22,000	78,000
(*iii*) Harihar (Karnataka)	N.A.	N.A.
Modipon Ltd., Modinagar (U.P.)	27,000	N.A.
South India Viscose Ltd., Sirumugai (Tamil Nadu)	18,000	11,000
U.P. State Textile Corpn., Kanpur (U.P.)	22,500	N.A.
TOTAL ..	89,500	89,000

N.B.—Letters of intent have been issued to the Gwalior Rayon (36,000 tonnes capacity), Gogate Minerals (27,000 tonnes capacity), The Ganges Manufacturing Co. (M.P.) (8,000 tonnes capacity), The Karnataka Ind. Dev. Corpn. Ltd. (10,000 tonnes capacity), The Tamilnadu Ind. Dev. Corpn. Ltd. (14,000 tonnes capacity), and U.P. Textile Ind. Dev. Corpn. Ltd. (25,500 tonnes capacity).

Acetate Filament Yarn & Staple Fibre : There is only one unit viz. Messrs. The Sirsilk Ltd., Sirpur-Kaghaznagar, Adilabad district, Andhra Pradesh, engaged in the production of acetate filament yarn and staple fibre having licensed and installed capacity as under :—

Item	Licensed capacity per annum (tonnes)	Installed capacity per annum (tonnes)
Acetate Filament Yarn ..	3,600	3,200
Acetate Staple Fibre ..	500	800
TOTAL	4,100	4,000

Rayon Tyre Yarn: At present there are three units engaged in the production of rayon tyre yarn having licensed and installed capacity of 18,800 tonnes and 24,750 tonnes per annum as under :—

Name of the Unit	Location	Licensed capacity per annum (tonnes)	Installed capacity per annum (tonnes)
Century Rayon	Shahad-Kalyan (Maharashtra)	6,800	10,500
National Rayon Corporation Ltd.	Mohone-Kalyan (Maharashtra)	7,000	8,000
Shriram Rayons	Kota (Rajasthan)	5,000	6,250
TOTAL		18,800	24,750

Research and Training : *The Silk and Art Silk Mills' Research Association* (SASMIRA), SASMIRA Marg, Worli, Bombay 400025, conducts research, provides technical services, testing and offers training facilities in the technology of man-made fibres and textiles.

MINES AND MINERALS

THE estimated value of mineral production in India during 1977 was Rs. 13,238 million as against Rs. 13,117 million in the previous year. Fuels (coal, lignite, petroleum & natural gas) constituting the leading group accounted for Rs. 9,697 million or 73·2 per cent of the total value of mineral production during 1977. The share of metallic minerals was Rs. 1,655 million and that of non-metallic minerals Rs. 950 million accounting for 13 and 18 per cent respectively.

In terms of value of output, coal including lignite was foremost with 60 per cent followed by petroleum and natural gas 19 per cent; iron ore 7 per cent; limestone 3 per cent; phosphorite and copper ore 2 per cent each; gold, chromite and manganese ore 1 per cent each; and other minerals together accounted for the remaining 4 per cent. The index of mineral production (quantum index) with base 1970 = 100 was 136 in 1976 as compared to 128 during the previous year. Among fuels, the index of both coal mining and petroleum and natural gas increased to 158 in 1976 from 145 in 1975 and that of non-metallic mining to 125 in 1976 from 112 in 1975.

STATE-WISE ANALYSIS

Bihar occupied the leading position accounting for about 30 per cent of the total value of mineral production in 1976 followed by West Bengal with 15 and Madhya Pradesh with 13 per cent. Assam and Gujarat accounted for 10 per cent each, Orissa and Andhra Pradesh 5 per cent each and Rajasthan 4 per cent.

The value of mineral production (Rs. million) in each State for 1977 was as follows :

Bihar	3,804
West Bengal	1,752
Madhya Pradesh	1,801
Assam	1,344
Gujarat	1,364
Orissa	643
Andhra Pradesh	691
Rajasthan	586
Tamil Nadu	331
Maharashtra	298
Others	624
All India Total	13,238

EXPORTS

The foreign exchange earned by exports of minerals and metals from India totalled Rs. 10,810 million during 1976, 61 per cent higher as compared to the preceding year.

The foreign exchange earned through the export of ores and minerals during 1976 totalled Rs. 5,475 million registering a rise of 37 per cent over 1975. The marked improvement in export earnings was primarily due to significant increase in diamond export, though the higher value of exports of iron ore, chromite, mica and other precious/semi-precious stones were also responsible for the increase. The share of contribution of minerals and metals in the total foreign exchange earnings from all commodities was 11·4 per cent and 11·25 per cent respectively during 1976.

IMPORTS

Foreign exchange spent on the imports of minerals and metals into India during 1976 totalled Rs. 17,311 million registering an increase of 4 per cent, as compared to 1975.

MINERAL FUELS

Coal & Lignite : The most important coal fields are Raniganj in West Bengal and Jharia and Bokaro in Bihar. The best coking coal comes from Giridih, Jharia and Raniganj. Other States in which coal is found are Madhya Pradesh, Orissa, Andhra Pradesh, Tamil Nadu, Maharashtra, Assam, Rajasthan and Jammu and Kashmir.

The total all-India proved, indicated and inferred reserves of all types of coal, including lignite, stand at 83,050 million tonnes with seams of 1·2 metres and above in thickness down to a depth of 600 metres from the surface. The reserve of coking coal is placed at 20,155 million tonnes.

India became the sixth largest producer of coal in the world with nearly 100 million tonnes during 1976. The output of coal in million tonnes: **1975** (95·9); **1976** (101·0); **1977** (100·0).

The value of coal production during 1977 was Rs. 7,051 million.

The output of lignite in million tonnes: **1975** (2·8); **1976** (3·9) ; **1977** (4·0).

The value of lignite production during 1977 was Rs. 180 million.

The "Integrated Neyveli Lignite Project" at Neyveli, S. Arcot district of Tamil Nadu, is planned to increase the mine output to 6·5 million tonnes per annum. During 1976, 3·9 million tonnes of lignite was mined in Neyveli.

Lignite also occurs at Palana and Khari in Bikaner district, Rajasthan; Nichahom in Jammu & Kashmir; Kutch and Bharuch districts in Gujarat.

METALLIC MINERALS (FERROUS GROUP)

Chromite : is an important strategic mineral of which India has moderate supplies.

The chief deposits of chromite ore are in Cuttack and Keonjhar districts of Orissa ; Bhandara and Ratnagiri districts of Maharashtra ; Singhbhum district of Bihar ; Mysore and Hassan Districts of Karnataka ; Krishna district of Andhra Pradesh and Salem district of Tamil Nadu.

Production and exports respectively in '000 tonnes of chromite: **1975** (500; 359); **1976** (402; 278); **1977** (360;—).

Production of ferro-chrome during 1976 was 17,059 tonnes as against 10,282 tonnes in 1975.

The export of ferro-chrome during 1976 was 4,813 tonnes valued at Rs. 35·3 million as against 3,115 tonnes valued at Rs. 21·6 million during the previous year.

Iron ore : The production of iron ore during 1977 totalled 43·67 million tonnes (including Goa) as against 43·87 million tonnes in the previous year.

India is one among the few countries endowed with large reserves of good quality iron ores which can meet the growing demands of the indigenous iron and steel industry and also sustain considerable export trade.

The production from Goa during 1976 was 13·2 million tonnes as against 13·7 million tonnes during 1975. During the same year Madhya Pradesh produced 11·0 million tonnes, Orissa 7·8 million tonnes and Bihar 6·8 million tonnes.

Large deposits of iron ore were recently discovered in Kozhikode, Kerala.

Production and value respectively of iron ore (including Goa): **1975** (41,794,000; 766,971,000); **1976** (43,871,000; 864,016,000); **1977** (43,674,000; 907,217,000).

During 1976, out of 43,015,000 tonnes 26,115,000 tonnes were lumps and the rest 16,900,000 tonnes as fines.

Among the minerals exported, iron ore is the largest foreign exchange earner contributing 42 per cent of the total value of mineral export during 1976. Japan continued to be the leading buyer of Indian iron ore.

Export trade of iron ore in tonnes and value in rupees respectively are: **1975** (22,796,000; 2,064,610,000); **1976** (23,403,000; 2,324,692,000).

Manganese ore : Extensive deposits of manganese ore occur in Madhya Pradesh, Maharashtra, Orissa, Andhra Pradesh, Karnataka, Bihar, Rajasthan and Goa.

The total reserves of manganese ore in the country according to the latest estimates made, are placed at about 108 million tonnes including Goa. It is estimated that the deposits in the main belt of Nagpur and Bhandara in Maharashtra and Balaghat in Madhya Pradesh alone contain reserves of the order of 42 million tonnes. A major part of the output is exported at present.

Yearly output and exports respectively of manganese ore in tonnes: **1975** (1,605,000; 793,000); **1976** (1,759,000; 714,000); **1977** (1,824,000; —).

There is only one ferro-manganese plant under public sector at Bhadravati in Karnataka State, and six in the private sector, two each in Maharashtra and Orissa and one each in Andhra Pradesh and Karnataka with an overall capacity of 181,240 tonnes. One more unit is proposed at Tumsar in Maharashtra.

During 1976, the total production of ferro-manganese was 175,506 tonnes as against 142,549 tonnes in 1975. The export of ferro-manganese during 1976 was 24,154 tonnes, valued at Rs. 53·5 million as against 2,001 tonnes valued at Rs. 6·45 million in the previous year.

NON-FERROUS GROUP

Bauxite: India is self-sufficient in respect of bauxite which is the chief raw material for aluminium metal. A sizeable quantity also finds an outlet in export markets after meeting the indigenous requirements. The all India reserves of bauxite of all grades are placed at 249 million tonnes. The recent discovery of bauxite deposits on the east coast of Andhra Pradesh and Orissa has enhanced this reserve.

The important deposits of bauxite occur in Palamau and Ranchi districts of Bihar; Surguja, Shabadol, Jabalpur and Bilaspur districts of Madhya Pradesh; Salem, Madurai and Nilgiris districts of Tamil Nadu; Kolhapur, Ratnagiri and Kulaba districts of Maharashtra; Jamnagar, Kutch and Surat districts of Gujarat; Kalahandi and Sambalpur districts of Orissa; and Poonch, Riasi and Udhampur districts of Jammu & Kashmir.

Yearly production and export respectively of bauxite in tonnes are: **1975** (1,274,000; 14,000); **1976** (1,448,000; 21,000); **1977** (1,563,000; —).

Aluminium : There are seven aluminium smelters: one in the public sector at Korba (Madhya Pradesh) with an installed capacity of 25,000 tonnes; six in private sector located at Hirakud (Orissa); Alwaye (Kerala); Belgaum (Karnataka); Renukoot (U.P.); Mettur (Tamil Nadu); and Jayakanagar (West Bengal) with an installed capacity of 210,170 tonnes per annum. Setting up of [illegible] more unit, under public sector at Ratnagiri, Maharashtra (50,000 tonnes capacity) is under consideration.

During 1976, exports of aluminium were 41,867 [illegible] valued at Rs. 304·2 million as against 6,234 tonnes [illegible] at Rs. 78·9 million during 1975; while imports for 1976 were 2,031 tonnes valued at Rs. 30·[illegible] million against 7,000 tonnes valued at Rs. 97·1 million for 1975.

Copper: In India at present there are two copper smelters, both in public sector, located at Ghatsila, Bihar and Khetri in Rajasthan.

Total installed capacity of copper metal is 57,[illegible] tonnes per annum against which the production of copper metal during 1976 was 17,012 tonnes.

Copper (including its alloys, brass, bronze and [illegible]) import in tonnes and value in '000 rupees respectively: **1975** (22,665; 316,853); **1976** (40,813; 526,052).

The estimated production of copper ore during [illegible] was 2,588,977 tonnes valued at Rs. 247·24 million.

Malanjkhand Copper Mines : The Soviet Union [illegible] worth Rs. 35 million (3·5 million roubles) to finance the giant Malanjkhand Copper Project was signed [illegible] April 6, 1977. This is being set up for producing [illegible] million tonnes of copper ore per annum at a cost [illegible] Rs. 825·8 million. The copper reserves at Malanjkhand are estimated at 850,000 tonnes of pure copper which [illegible] be extracted from ore and are expected to yield twice [illegible] much copper as is produced today in India.

Lead & zinc : Investigation for lead and zinc w[illegible] carried out in Zawar belt of Udaipur district, Ambama[illegible] belt in Gujarat and Sargipalli in Orissa.

Zawar is the only area producing lead and zinc or[illegible] During 1976, about 15,858 tonnes of lead concentrates and 45,025 tonnes of zinc concentrates were produced from Zawar mines in Udaipur district, Rajasthan.

There are at present two zinc smelters, one at Debari [illegible] Rajsthan and the other at Alwaye, Kerala with an installed capacity of 38,000 tonnes per annum. Work is in progress [illegible] expansion of the capacity of Debari smelter from 18,[illegible] tonnes to 45,000 tonnes per annum.

Production and value of lead concentrates during 19[illegible] in tonnes and Rs. million respectively was 16,3[illegible] [illegible] 36·54; and that of Zinc concentrates 44,632 and 85·76

Gold : The production of gold during 1977 was 2,[illegible] kg valued at Rs. 133·16 million.

NON-METALLIC MINERALS

Apatite and rock phosphate : These constitute [illegible] principal raw material for production of commercial phosphatic fertilisers. Requirements of rock phosphate w[illegible] entirely met by imports till 1968. In view of their [illegible] supply, intensive exploratory programme for the search [illegible] phosphate minerals were launched upon by the Govt. [illegible] as a result several workable deposits of phosphorites [illegible] discovered in Rajasthan, Uttar Pradesh and Madhya Pradesh. Production of phosphorite has already commenced at Jhamar-Kotra and Maton in Udaipur district of Rajasthan and Maldeota in Dehra Dun district of [illegible] Pradesh. The production of phosphorite during 19[illegible] [illegible] estimated to be 747,107 tonnes, valued at Rs. [illegible] million against 644,058 tonnes, valued at Rs. [illegible] million in 1976.

Import of phosphate during **1975 :** 567,3[illegible]; **19**[illegible] 471,521.

sbestos : Naturally occurring fibrous minerals are called sbestos'. The commercial varieties fall into two groups iz. the serpentine group found extensively in the serpentine ocks and is commonly called chrysotile variety and the ther amphibole group comprised of tremolite, actinolite, nthophyllite, crocidolite and amosite varieties. The chry-otile variety is the most important one from the industrial oint of view and is mainly limited to Pulivendla taluk of uddapah district of Andhra Pradesh and Singhbhum istrict of Bihar.

In all there were 11 asbestos cement manufacturing nits in 1976 with a total licenced capacity of 636,996 onnes per annum, against which the production was 25,000 tonnes.

The bulk of the asbestos requirements of the country is net by imports. The trend in the production and imports of sbestos for the last four years is shown in the table below :

(In tonnes)

Year	Output	Imports
1973	12,460	43,643
1974	21,216	60,175
1975	20,312	41,514
1976	24,119	47,167
1977	20,260	—

ypsum : Deposits are mainly found in Jodhpur, Bikaner, Vagaur and Jaisalmer districts of Rajasthan ; Tiruchira-alli and Coimbatore districts of Tamil Nadu and Doda nd Baramulla districts of Jammu & Kashmir.

The total reserves of gypsum are placed at 1,216 million onnes, Rajasthan accounts for more than 90 per cent of he Indian reserves.

Smaller deposits also occur in Jamnagar, Bhavnagar-unagadh and Kutch districts of Gujarat ; Nellore district f Andhra Pradesh ; Tehri Garhwal district of Uttar radesh and Sirmur district of Himachal Pradesh

Production of gypsum in tonnes : **1973 :** 881,000 ; **1974 :** ,073,000 ; **1975 :** 816,000 ; **1976 :** 726,000 ; **1977 :** 770,000.

Value of gypsum produced in Rs. million : **1975 :** 12·9 ; **976 :** 15·6 ; **1977 :** 16·3.

yanite and sillimanite are the important refractory ninerals having the same chemical composition (Al_2O_3 : iO_2). India has the richest deposits of kyanite and silli-nanite in the world. Kyanite deposits are located at apsaburu, Kharswan in Singhbhum district, Bihar and illimanite deposits at Sonapahar in Khasi Hills, Megha-aya. The Indian sillimanite can be used as a refractory vithout calcination since it shows very little expansion. ndia occupies an important position both as a producer nd an exporter of kyanite and sillimanite.

The trend of their output and exports for the last four ears are shown in the following table :

(In tonnes)

Year	Kyanite		Sillimanite	
	Output	Export	Output	Export
1974 ..	45,279	25,159	2,917	829
1975 ..	53,474	23,579	8,278	100
1976 ..	48,779	11,391	14,758	455
1977 ..	45,852	—	—	—

Limestone is one of the most important industrial minerals required in the manufacture of cement, iron and steel, ferro-alloys, chemicals (for soda ash, caustic soda, bleaching powder, calcium carbide etc.), fertiliser (calcium ammonium nitrate) and lime.

From the present knowledge of reserves of various limestone deposits, it is apparent that sufficient resources of flux and cement grade limestone are available.

The production of limestone in tonnes and value in rupees respectively : **1975 :** (26,521,000 ; 508,198,000) ; **1976 :** (29,891,000 ; 584,777,000) ; **1977 :** (29,951,000 ; 602,320,000).

Magnesite : Large deposits of magnesite are known to occur in Salem (Tamil Nadu), Hassan, Coorg, and Mysore (Karnataka), and Almora (U.P.). Small deposits are known in Dungarpur (Rajasthan) and Singhbhum (Bihar). The chief producing centres are Salem, Mysore and Almora districts. Magnesite is used in the manufacture of magnesium salt, metallic magnesium and refractory bricks.

Major part of the output is used in the manufacture of refractory bricks for steel works and some quantity is exported.

Production and export (in tonnes) respectively : **1975 :** (313,453 ; 9,698) ; **1976 :** (329,698 ; 8,240) ; **1977:** (422,013 ; —).

Mica is treated as a strategic mineral and India accounts for a big slice of the world trade in it.

The principal mica deposits are concentrated in Bihar, Rajasthan and Andhra Pradesh. During 1976, Bihar accounted for 61 per cent of the all India output, followed by Andhra Pradesh 30 per cent and Rajasthan with 9 per cent.

There are three mica insulation bricks manufacturing units in Rajasthan utilizing scrap or mica waste. There is also one major unit manufacturing different types of micanite in Bihar.

The production of crude mica (excluding waste mica) and export of all grades of mica respectively in tonnes are : **1975 :** (11,501 ; 34,679) ; **1976 :** (9,485 ; 22,154) ; **1977 :** (9,045 ; —).

Sulphur : The mineral pyrites is one source of sulphur. Important deposits of pyrites are in Amjhore (Bihar) and Saladipura area (Rajasthan). Presently Amjhore deposit is being exploited.

The Pyrites and Phosphates and Chemicals Ltd. has been set up to exploit pyrites for production of sulphuric acid and other related products. The company continued implementation of two projects viz. (1) Mining of 0·24 million tonnes of pyrites per annum at Amjhore, (2) production oriented exploratory mining pyrite project, Saladipura, Rajasthan. The Sindri acid plant of Fertiliser Corporation of India is the only plant consuming pyrites for the manufacture of sulphuric acid to be used in the manufacture of phosphate fertilizer. The country's requirements of sulphur are met from imports.

Imports of sulphur in tonnes during **1975 :** 617,115 ; **1976 :** 588,763.

Salt : The total production of common salt in the country during 1976 was 4,076,400 tonnes.

Iodised Salt : Out of the above quantity, a quantity of 162,068·9 tonnes was iodised at Sambhar Lake in Rajasthan, Kharaghoda in Gujarat and Calcutta in West Bengal for supply to the goitre endemic areas under the National Goitre Control Scheme.

Rare Minerals : Investigations carried out by the Department of Atomic Energy have revealed a number of radioactive mineral deposits in India.

The beach sands of Kerala and Tamil Nadu contain a useful radioactive mineral — monazite, which contains thoria, uranium oxide, phosphate and a large percentage of rare earth oxides. Thorium can be converted into an important atomic fuel of the future. The total reserves of rare earth oxides in the beach sands have been estimated at approximately one million tonnes.

Ilmenite is also recovered from the beach sands of Kerala State and the Mahavalakurichi area in Tamil Nadu. It is now mainly exported to Japan. The present estimated resources of ilmenite in the country are placed at 100 to 150 million tonnes. During 1976 120,727 tonnes of ilmenite, valued at Rs. 29·94 million was exported.

India's present overall indicated and inferred
of uranium are estimated at about 76,000 tonnes, and thorium at 500,000 tonnes.

Uranium bearing ores have been discovered in
Singhbhum Thrust Belt of Bihar, and in the Hima
regions of Himachal Pradesh and Uttar Prades
uranium mine at Jaduguda in the Singhbhum
worked by the Uranium Corporation of India Lt
Govt. of India undertaking, treats about 1,000
of ore per day in the uranium mill.

Investigation for uranium and other atomic
in Andaman and Nicobar group of islands is cu
progress.

It has been estimated that the resources of uran
in India can support about 5 to 10 million kWs of e
tricity generating capacity.

PRODUCTION & VALUE OF MINERALS

(Value in Rs. mi

Mineral	Unit of Quantity	1976		1977	
		Quantity	Value	Quantity	Val
All Minerals			**13,117·79**		**13,238·42**
Apatite	Tonne	38,270	5·92	34,834	7·34
Asbestos	,,	24,119	10·10	20,260	8·99
Barytes	,,	235,068	12·22	331,445	18·94
Bauxite	,,	1,448,961	42·89	1,563,749	51·02
Chromite	,,	402,111	196·15	360,398	168·31
Coal	'000 tonnes	100,876	7,122·69	100,040	7,051·46
Copper ore	Tonne	2,394,345	233·18	2,588,977	247·24
Diamond	Carat	20,487	9·99	17,004	7·69
Dolomite	Tonne	1,886,167	59·38	2,055,922	71·26
Fireclay	,,	665,567	11·39	672,222	10·77
Fluorite (Concentrates) ..	,,	13,980	13·98	18,174	24·23
Fluorite (Graded)	,,	3,643	4·48	3,534	4·97
Gold	Kilogram	3,132	150·12	2.806	133·16
Gypsum	Tonne	726,831	15·59	770,662	16·35
Iron ore	'000 tonnes	43,871	864·02	43,674	907·22
Kaolin	Tonne	437,942	24·40	422,237	23·38
Kyanite	,,	48,779	16·46	45,852	14·65
Lead concentrates	,,	15,856	32·30	16,335	36·55
Lignite	'000 tonnes	3,895	192·40	4,060	180·85
Limestone	Tonne	29,891,424	584·78	29,951,207	602·32
Magnesite	,,	329,698	30·02	422,013	43·53
Manganese ore	,,	1,759,869	156·89	1,824,632	178·18
Mica crude	,,	9,485	22·10	9,045	23·49
Natural gas	Million cu.m.	1,514	52·76	1,620	[illegible]
Petroleum (Crude)	'000 tonnes	8,430	2,316·56	8,767*	[illegible]
Phosphorite	Tonne	644,058	174·65	747,107	[illegible]
Pyrites	,,	47,531	12·90	32,796	[illegible]
Steatite	,,	220,461	9·82	182,983	[illegible]
Zinc concentrates	,,	45,322	81·07	44,632	[illegible]
Other minerals (value) ..			65·68		[illegible]
Minor minerals (value) ..			588·23†		[illegible]

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* Excluding production of 1,005,000 tonnes of petroleum (crude) from Bombay High offshore estimated on the basis of average p
during January to September 1977. † The value of minor minerals is estimated.

EXPORTS OF MINERALS

(Value in Rs. million)

Mineral	Unit of Quantity	1975		1976	
		Quantity	Value	Quantity	Value
All Minerals			**3,984·52**		**5,473·39**
Asphalt & Bitumen	Tonne			15,199	13·25
Barytes	,,	173,610	66·37	151,426	77·02
Bauxite	,,	14,320	4·49	21,190	3·62
Bentonite	,,	9,665	4·26	12,631	6·85
Chromite	,,	359,380	187·29	277,798	263·16
Coal	'000 tonnes	425	142·38	477	123·24
Coke	Tonne	15,389	8·27	24,313	10·59
Diamond (Cut)	N.A.	N.A.	856·43	N.A.	1,876·33
Dolomite	Tonne	3,369	0·43	5,946	0·73
Emerald (Uncut)	N.A.	N.A.	6·29	N.A.	5·78
Felspar	Tonne	6,509	1·82	11,983	3·35
Ilmenite	,,	68,975	14·81	120,727	29·94
Iron ore	'000 tonnes	22,796	2,064·61	23,403	2,324·69
Kaolin	Tonne	1,818	1·27	3,778	2·91
Kyanite	,,	23,579	17·97	11,391	10·54
Limestone	,,	121,258	2·31	219,946	6·77
Magnesite	,,	9,698	5·95	8,240	5·74
Manganese ore	,,	793,359	169·31	714,438	159·51
Mica	,,	34,679	189·24	22,154	240,917
Precious & Semi-precious Stones *	,,	N.A.	179·99	N.A.	204·55
Quartz	,,	2,929	1·36	6,520	2·60
Sillimenite	,,	100	0·13	455	0·64
Steatite	,,	7,158	4·35	8,783	5·54
Stones (Bldg. & monumental granite etc.)	,,	56,910	22·55	155,392	67·71
Sulphur	,,	704	12·96	799	13·67
Other minerals (value) ..			19·62		13·71

* Excluding pearls and synthetic gem stones.

IMPORTS OF MINERALS

(Value in Rs. million)

Minerals	Unit of Quantity	1975		1976	
		Quantity	Value	Quantity	Value
All Minerals			**11,625·02**		**13,309·17**
Antimony ore and concentrates	Tonne	724	8·48	1,523	13·38
Apatite (Rock phosphate) ..	'000 tonnes	561,314	324·84	471,521	238·71
Asbestos	Tonne	41,514	112·88	47,167	171·01
Borax	,,	18,996	23·44	11,504	13·18
Copper ore and concentrates	,,	25,368	47·70	—	—
Cryolite and chiolite ..	,,	—	—	1,961	8·26
Diamond (uncut)	,,	N.A.	694·88	N.A.	1,400·02
Diamond — Industrial (incl. bort)	Kgs.	159	18·77	96	10·39
Emerald (uncut)	Tonne	N.A.	40·84	N.A.	60·02
Fluorspar	,,	4,206	3·52	4,062	2·89
Graphite natural	,,	404	1·38	647	2·79
Lead ore and concentrates ..	,,	30	0·37	145	0·76
Manganese ore (milled for dry-cell battery)	,,	5,430	7·30	190	0·29
Petroleum (crude)	'000 tonnes	13,669	9,792·00	13,659	10,882·11
Precious and semi-precious stones	—	N.A.	4·57	N.A.	3·99
Sulphur	Tonne	617,115	452·27	588,763	348·93
Tungsten ore and concentrates	,,	216	12·14	501	29·34
Zinc ore and concentrates ..	,,	23,079	47·57	38,493	89·37
Others (value)			32·05		33·72

Iron Ore Exporting Countries: India played a leading role in the formation of the association of Iron Ore Exporting Countries. The purpose of forming the association was, to safeguard their legitimate interest in the present inflationary trends.

The first session of the conference of IOEC countries (India, Algeria, Australia, Chile, Mauritania, Venezuela) was held in London on 23rd and 24th October, 1975. Peru became the 7th signatory of the association.

The total iron ore production in the world was 794·00 million tonnes in 1973. The production of the signatory countries was 243·00 million tonnes — 30 per cent of the total world production. World exports of iron ore in 1972 were 246·5 million tonnes. The share of IOEC countries was 189·00 million tonnes — 76 per cent of the total exports. India's share in production was 4·4 per cent, and in exports 8·6 per cent.

New Surveys: Large reserves of limestone, coal, graphite and dolomite have been located in the eastern region of the country — Nagaland, Arunachal Pradesh, Mizoram and Meghalaya.

Meghalaya has indicated a reserve of about 900 million tonnes of limestone, while exploratory drilling has indicated the existence of a reserve of about 200,000 tonnes of zinc, copper and lead ore.

A coal reserve of about 29 million tonnes is also indicated in the Khasi-Jaintia hills and the Garo hills.

In Nagaland, the survey has revealed a sizeable patch of nickliferrous and chromiferrous rocks and limestone deposits.

In Arunachal Pradesh occurrences of sulphides cobalt have been found. A reserve of 16 million tonnes of non-coking coal has also been established.

The total limestone reserve in the state is about 275 million tonnes, while graphite deposits of 23,000 tonnes have been located in Subansari district.

In its effort to locate new mineral reserves the Geological Survey of India has taken up an intensive programme of investigation during the 1975-76 field season.

Over 71,000 sq. kms. area of geological mapping and 85,465 m. of drilling will be carried out in 22 states and Union territories.

The largest single deposit of iron ore in the country and in the world with an estimated reserve of about 1,500 million tonnes has been recently found by Mineral Exploration Corporation at Chiria in Singhbhum district of Bihar. Iron content of the ore was about 62 per cent.

MEC was currently exploring for coal deposits in Bihar, West Bengal, Madhya Pradesh and Maharashtra at the behest of the Coal Mining Authority and the Bharat Coking Coal Limited. Rich deposit of lead-zinc copper ore at Ambamata in Gujarat have also been discovered.

The first phase of exploration on the two million tonnes lead-zinc deposit at Jangamrajapalli in Cuddapah district of Andhra Pradesh was also completed.

The Geological Survey of India has also located one of the world's major deposits of barytes, about 15 million tonnes, in one block in the Mangampeta area of Andhra Pradesh. Barytes are used in drilling of oil.

Mining Projects under way: Eleven mining projects are now being developed in the coal sector. The details are : **Sudamdih :** A prime coking coal project in central Jharia. **Monidih :** Situated in central Jharia ; **Jarangdih :** Situated in Talcher (Orissa); **Nandura :** Situated in Talcher ; **Jayant** (Singrauli I) ; **Bina :** Situated in Singrauli; **Balarampur:** Situated in Karanpura ; **Nanditoli:** Situated by the side of Gidi C. Project ; **Silewara expansion :** Situated in Maharashtra ; **Pipla :** Adjacent to the Silewara expansion project and **Katkona.**

Source : Indian Bureau of Mines, Nagpur.

1977—Exploration

Bauxite has been located in the Tribal districts of Sarguja and Bastar (M.P.).

Copper deposits have been discovered in Thosham and Khadana (Bhiwani dist., Haryana) and Bastar dist. of Madhya Pradesh.

Phosphate : Massive rock phosphate, estimated to be about 52·2 million tonnes was discoverd in Jhamar-Kotra, near Udaipur.

Silica : Extensive deposits of silica sand have been located near Lathi, Jaisalmer dist., Rajasthan.

Sillimanite : Vast deposit of Sillimanite has been found in Khasi Hills, Meghalaya.

Tin : Rich deposit of tin was located in Bastar dist., Madhya Pradesh.

Vermiculite : A rarely found micaceous mineral, has been found in Bakradih in Hazaribagh dist. (Bihar State). This mineral is used for sound-proofing rockets and in atomic research.

MISCELLANEOUS MANUFACTURES

FOLLOWING table gives installed capacity and production of selected items manufactured in India during 1976—1977.

Industry	Accounting Units	Installed Capacity	Production	Production as Percentage of Capacity
1. ACSR/ARC conductors	Th. Tonnes	128·78	68·20	47
2. Agricultural tractors	Th. Nos.	50·00	32·40	65
3. Air/gas compressors	Th. Nos.	13·36	7·50	56
4. Air conditioners (room)..	Th. Nos.	43·94	20·51	47
5. Aluminium collapsible tubes	Mill. Nos.	224·66	229·00	102

	Industry	Accounting Units	Installed Capacity	Production	Production as Percentage of Capacity
6.	Ball bearing	Mill. Nos.	31·97	28·50	89
7.	Beer	Th. KL	119·24	86·00	72
8.	Bicycles	Th. Nos.	3,701	3,000	81
9.	Biscuits	Th. Tonnes	104·45	77·00	74
10.	Bitumen drums	Tonnes	33,340	11,111	33
11.	Boilers (industrial & power)	Rs. Mill.	1,615·70	1,740·0	108
12.	Bottles and vials (including semi-automatic)	Th. Tonnes	4·22	250	59
13.	Bread	Th. Tonnes	83·20	83·00	99
14.	Bright bars	Th. Tonnes	570·74	60·00	11
15.	C. I. spun pipes	Th. Tonnes	478·60	160·00	33
16.	Calculating & adding machines	Nos.	12,500	12,608	101
17.	Cameras	Th. Nos.	588	600	102
18.	Carbon black	Tonnes	86,700	60,000	87
19.	Carbon block (Metallic Gd.)	Tonnes	80	65	81
20.	Chocolates	Tonnes	4,410	1,950	44
21.	Chrome tanned hides	Th. Hides	3,180	981	31
22.	Cinema arc carbons	Mill. Pairs	18·00	10·60	59
23.	Clocks	Th. Nos.	602	219	36
24.	Coaxial cables	KM	4,200	2,500	60
25.	Commercial vehicles	Th. Nos.	64·00	46·07	73
26.	Confectionery	Tonnes	35,928	13,500	38
27.	Conveyor belts	Tonnes	5,310	4,000	75
28.	Cranes (other than mobile cranker and truck mounted)	Th. Tonnes	64·37	21·00	33
29.	Crockery	Th. Tonnes	34·04	15·74	46
30.	Cutlery	Tonnes	520	250	48
31.	Diesel engines—stationary	Th. Nos.	303·08	133·92	44
32.	Diesel engines—vehicular	Nos.	6,000	3,324	55
33.	Domestic refrigerators	Th. Nos.	183·40	139·60	76
34.	Drums (large)	Th. Tonnes	153·4	57·9	38
35.	Dry cells	Mill. Nos.	1,291	620	48
36.	Electric fans	Th. Nos.	2,991	3,200	107
37.	Electric lamps	Mill. Nos.	164·08	181·24	110·5
38.	Electric motors	Mill. H.P.	6·60	4·00	61
39.	Electric stamping & Laminations	Tonnes	93,000	50,000	54
40.	Electronic calculators	Nos.	23,000	10,264	45
41.	Enamelled winding wires	M.T.	27,012	13,500	50
42.	Enamelware	Th. Pcs.	30,000	15,743	53
43.	Engine valves	Mill. Nos.	13·480	6·050	45
44.	Face cream	Tonnes	1,133	796	70
45.	Face powder (including talcum)	Tonnes	6,428	6,559	102
46.	Fan & V. belts	Mill. Nos.	8·57	8·00	93
47.	Fibre board	Tonnes	40,500	20,900	52
48.	Filterrods for cigarettes	Mill. Nos.	2,700	2,150	80
49.	Flash light cases*	Mill. Nos.	12·08	6·30	52
50.	Fluorescent tubes	Mill. Nos.	19·20	17·20	90
51.	GLS lamps	Mill. Nos.	196·13	165·00	84
52.	Gas cylinders	Rs. Mill.	24·05	140·00	571
53.	Generators*	Th. Nos.	2·66	1·38	52

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* Data relates to 1975.

Industry	Accounting Units	Installed Capacity	Production	Production a Percentage o Capacity
54. Glass sheet	M. Sq. Mts.	27	24	89
55. Glass shells	Mill. Pcs.	185	179	97
56. Glazed tiles	Tonnes	45,820	40,069	87
57. Graphite electrode anodes	Th. Tonnes	22·45	10·50	47
58. H. T. fasteners	Tonnes	19,246	9,400	49
59. H. T. insulators	Tonnes	27,000	18,149	67
60. Hacksaw blades	Rs. Mill.	75·05	25·00	33
61. Hoses	Mill. Metres	6·89	4·20	61
62. House service meters	Th. Nos.	20·06	20·04	99·9
63. Hurricane lanterns	Th. Nos.	3,823	3,200	58
64. Industrial air conditioning equipment	Rs. Mill.	27·20	15·36	57
65. Industrial coil springs	Tonnes	3,860	1,700	44
66. Industrial cooling towers	Rs. Mill.	33·00	27·09	85
67. Industrial fans & blowers	Rs. Mill.	90·00	64·31	72
68. Industrial knives	Rs. Mill.	88·00	20·00	23
69. Industrial process control	Rs. Mill.	17·1	16·5	97
70. Jeeps	Th. Nos.	13·00	6·08	52
71. L. T. insulators	Tonnes	8,956	1,351	15
72. Leather belting	Th. Kgs.	210·00	64·55	31
73. Lifts	Nos.	1,380	770	56
74. Locks*	Mill. Nos.	32·75	10·36	32
75. M. S. bolt & nuts, rivets	Th. Tonnes	51·09	26·01	53
76. M. S. machine screws*	Mill. Tonnes	154·22	182·50	118
77. Machine tools & accessories	Rs. Mill.	1,330·00	1,006·8	76
78. Matches, safety	Mill. Boxes	5,000	3,930	79
79. Medical and surgical instruments	Rs. Mill.	47·60	40·0	84
80. Metal slitting saws*	Rs. Th.	490,000	60,000	12
81. Milling cutters*	Rs. Th.	876,000	350,000	40
82. Miniature lamps	Mill. Nos.	70·93	35·57	50
83. Mopeds	Th. Nos.	67·05	36·05	54
84. Motor cycles & scooters	Th. Nos.	283·05	217·68	77
85. Motor starters	Th. Nos.	792	512	65
86. Myrobalan extracts	Tonnes	7,704	1,985	26
87. Oxygen gas	Mill. Cu. Metres	110·693	80·000	72
88. PVC/PIL power cable	Km.	25,761	19,500	76
89. PVC/VIR cables	MCM	1,255	450	36
90. Particle boards	Th. Tonnes	44·9	9·9	22
91. Passenger cars & jeeps	Th. Nos.	47·4	55·19	116
92. Pilferproof caps & closures	Mill. Nos.	774	1,038	134
93. Pipes fittings	Tonnes	21,720	5,626	26
94. Pistons*	Mill. Nos.	4·840	2·756	57
95. Plywood	Mill. Sq. Metres	57·54	39·22	68
96. Power driven pumps	Th. Nos.	363	300	83
97. Precision measuring tools	Rs. Mill.	50·0	36·60	73
98. Press tools, dies, moulds etc.	Rs. Mill.	81·0	63·5	78
99. Pressure cookers	Th. Nos.	825	500	61
100. Printing machinery	Rs. Mill.	64·5	25·8	40
101. Process pumps	Nos.	6,500	4,000	61

* Data relates to 1975.

Industry	Accounting Units	Installed Capacity	Production	Production as Percentage of Capacity
102. Radiators*	Th. Nos.	179·00	176·00	98
103. Radio receivers	Th. Nos.	2,966	1,740	59
104. Railway wagons	Th. Nos.	33·87	13·87	41
105. Razor blades	Mill. Nos.	2,530	950	38
106. Reamers	Th. Nos.	4·12	2·00	49
107. Refractories	Th. Tonnes	1,503	806	54
108. Road rollers	Nos.	1,500	236	16
109. Sanitaryware	Tonnes	20,640	19,645	95
110. Seamless steel tubes	Th. Nos.	39·6	31·9	81
111. Sewing machines	Th. Nos.	533·5	392·4	74
112. Small drums	Tonnes	18,451	4,015	22
113. Snap fasteners	Mill. Nos.	214·50	280·00	131
114. Soft drinks	Mill. bottles	1,731	460	27
115. Spark plugs	Th. Nos.	5,400	5,100	94
116. Steel castings	Th. Tonnes	197·6	70·8	36
117. Steel files	Rs. Mill.	70·0	69·0	99
118. Steel furniture & security equipments	Tonnes	45,705	27,000	59
119. Steel pipes, tubes	Th. Mts.	1,476	549·6	37
120. Storage batteries	Th. Nos.	2,234	14,650	65
121. Structurals	Th. Tonnes	452·0	111·5	25
122. Switchgears*	Rs. Mill.	1,200·00	817·5	68
123. Synthetic detergents	Th. Tonnes	200·0	103·9	52
124. T.V. picture tubes*	Th. Nos.	136	70	52
125. T.V. receivers*	Th. Nos.	89·5	43·3	48
126. Teleprinters	Nos.	8,500	5,177	61
127. Threading tools*	Rs. Th.	8,100	4,500	56
128. Timepieces*	Th. Nos.	1,400	824	59
129. Tin containers	Th. Tonnes	115	69	60
130. Tool bits HSS*	Rs. Th.	3,492	1,087	31
131. Tooth-paste	Th. Tonnes	4·2	9·1	217
132. Tooth powder	Tonnes	1,059	1,412	133·3
133. Trailers	Nos.	8,916	1,729	19
134. Transformers	Mill. KVA	29·16	14·92	51
135. Transmission towers	Th. Tonnes	179·8	105·0	58
136. Twist drills	ML. Nos.	15·76	13·94	89
137. Typewriters	Th. Nos.	86·4	66·7	77
138. Umbrella ribs	Th. dz. sets	740	600	81
139. Utensils	Th. Tonnes	18·26	3·57	20
140. Vaccum flasks	Mill. Pcs.	4·5	2·6	58
141. Wagon (3 wheelers)*	Th. Nos.	21·0	8·8	42
142. Water coolers	Nos.	9,986	9,045	91
143. Water meters*	Th. Nos.	2·97	1·40	47
144. Welding electrodes	Mill. Mts.	742·0	498·0	67
145. Winding wires	Th. Tonnes	41·27	19·7	48
146. Wire mesh	Tonnes	19,580	9,000	46
147. Wire nettings	Tonnes	1,603	1,200	75
148. Wire ropes	Th. Tonnes	45·06	26·00	58
149. Wood screws*	Mill. Nos.	1,506·80	1,560·00	104
150. Wrist watches	Th. Nos.	1,639	1,240	76
151. X-Ray equipments	Mill. Rs.	43·5	45·0	103
152. Zip fasteners	Lakh. mts.	29·30	10·00	34

* Data relates to 1975.

OIL-SEEDS AND VANASPATI

OILS and fats play an important role in India's economy with a current production of about 8·5 million tonnes valued at Rs. 25,960 million. Oilseeds form the second largest agricultural crop in quantity and value.

Employment : In 1974 oil-seeds were cultivated on 15 million hectares and provided employment to 14 million persons. In addition 0·5 million were employed in milling and processing units.

Area and Production of Five Major Oil-seeds 1976-77

Seed	Area	Production
Coconut	1,125·9	5,961·0@
Groundnut	6,947·6	5,262·4
Castor-seed	487·2	172·2
Sesamum-seed	2,165·1	403·9
Rape-seed & Mustard ..	3,144·5	1,561·8
Linseed	15,924·0	430·7
Total	14,668·4	7,831·0

Area : Thousand hectares; Production : Thousand tonnes; @ million nuts.

(*See the chapter on 'Food & Agriculture' for State-wise break-up*).

Demand & Supply : The area under 5 major oil-seeds—groundnut, castor, linseed, sesamum and rape/mustard—increased from 13·1 million hectares in 1958-59 to 15·3 million hectares in 1962-63 and has remained stagnant at that level ever since.

The production of six major oilseeds — groundnut, rapeseed, mustardseed, sesamumseed, linseed and castor seed — in 1976-77 came down to 7·8 million tonnes against 10·2 million tonnes in the previous year.

The Fifth Plan target was 12·5 million tonnes.

In spite of the area and production being more than other countries the yield of oil-seeds in India is the lowest in the world at 736 kgs. per hectare against 1,615·38 kgs. per hectare in Nigeria, 1,474·58 kgs. in U.S., 1,153·49 kgs. in Argentina and 1,148·55 kgs. in China.

Imports : To partially cover the gap between demand and supply the Government has had to regularly import between 0·15 to 0·2 million tonnes of vegetable oils and fats every year. In 1977 imports were freely allowed to all refiners, blenders and manufacturers of oils. The vanaspati industry used at last 70 per cent of the imported oil. Total imports are estimated at 1·1 million tonnes.

Consumption : Per capita consumption of edible oils has declined from 3·4 kgs. per year in 1958-59 to 3 kgs. per annum in 1975-76. According to the Indian Council of Medical Research the per capita nutritional requirement is 20 kgs. per annum. The poor intake of oil-seeds in India is the direct result of their short supply.

Exports : Exports of vegetable oil in 1975-76 was of the value of Rs. 350 million and during April-December 1976 was worth Rs. 440 million. Oilcake brought in an additional amount of Rs. 860 million in 1975-76 and Rs. 1,660 million during April-December 1976.

COCONUT is one of the important oilseeds produced in the country mainly in South India. *Production :* Copra : 358,000 tonnes (edible : 32,500 tonnes, milling : 325,700 tonnes); coconut oil : 203,000 tonnes; no. of crushing units : 1,446; total installed capacity 1,351 tonnes per shift of 8 hours a day. 90 per cent of the milling copra is produced in Kerala.

GROUNDNUT: Groundnut production of India w[illegible] accounted for more than half of the world output in [illegible] 71 came down sharply to 32·4 per cent in [illegible] The 1977-78 production was estimated at 5·60 [illegible] tonnes vis-a-vis world production estimate of 16·36 [illegible] lion tonnes.

Exports of groundnut extractions form a lion's [illegible] the total exports of oil-seeds meal from India, and [illegible] tute more than 50 per cent of the total world exports. I[illegible] exported 1,248,389 tonnes of groundnut meal [illegible] Rs. 1,648 million during 1976-77.

Per Hectare Yield in kgs. of groundnut : 19[illegible] 845; 1974-75 : 724; 1975-76 : 948.

Groundnut Cultivation : The Vanaspati Manufacturers' Association of India ([illegible] House, [illegible] Rd., Bombay 400001), have conducted extension pro[illegible]grammes in 14 States covering 27,000 hectares of gro[illegible] nut plantations. It has been demonstrated that with [illegible] proved selection of seeds, better water manage[illegible] analysis and treatment and plant protection the yield of groundnut can be increased by 40 per cent. The A[illegible] tion has taken up large-scale multiplication of i[illegible] varieties of groundnut developed by BARC [illegible] cultural universities.

The association has 56 vanaspati factories as m[illegible] who produced 375,000 tonnes of vanaspati in 1977.

COTTONSEED : Until about the beginning of t[illegible] ties cottonseed was used almost entirely as a cat[illegible] but now 65 to 70 per cent of the total produ[illegible] available for crushing.

Scientific processing of cottonseed is undertaken by the 200 members of All India Cottonseed Crushers' A[illegible] tion, through which all exports of cottonseed oilc[illegible] canalised. The unorganised sector scattered throu[illegible] the cotton producing States also crushes cottonsee[illegible] with a lower oil recovery and complete loss of li[illegible] valuable raw material for pulp. In 1976-77, the [illegible] tors accounted for production of about 160,000 t[illegible] cottonseed oil, of which about 100,000 tonnes we[illegible] in the manufacture of vanaspati, the balance [illegible] marketed as refined liquid oil. In 1977-78, due to [illegible] large imports of cheap edible oils, the compulsory off[illegible] by vanaspati units was gradually reduced by go[illegible] from 30 per cent to 10 per cent. This [illegible] high prices of cottonseed due to a short crop were [illegible] ble for generally lower crushing of cottonseed in [illegible]

Exports : Decorticated cottonseed ex[illegible] lers, a by-product of scientific processing, have no mar[illegible] in India and have to be exported. The quantum [illegible] during 1975-76 was 198,145 tonnes valued at R[illegible] million. The corresponding figures for 1976-77 being [illegible] tonnes and Rs. 230 million respectively. The better [illegible] [illegible] were partly due to higher [illegible]

SOYABEAN: The Central Government has a 25 per [illegible] incentive scheme which subsidises the soyabean grower's purchase of pesticides and other inputs to the exten[illegible] one-fourth of his purchase price. This is in pursuanc[illegible] the Government's policy to encourage soyabean culti[illegible] vation for its protein rich content and its use as an [illegible] tional source of edible oil.

The area target envisaged for the Fifth Five [illegible] Plan is 400,000 hectares but the actual achievement w[illegible] only 120,000 hectares at the end of 1975-76 and the p[illegible] duction was 80,000 tonnes.

According to an agreement signed in January, 1977, India will import 50,000 tonnes of soyabean oil from the U.S. valued at about $26 million.

Sunflower Oil : With proper techniques of cultivation, yields up to 2 tonnes per hectare can be obtained. The success of sunflower cultivation depends on the availability of high-yielding fresh varieties of seeds as the crop is highly cross polinated. The Government has sanctioned a scheme for producing such seeds.

Under a Central Government programme sunflower has been grown in Andhra Pradesh, Tamil Nadu and Karnataka.

The Central Government introduced an incentive scheme for sunflower growing by which it envisaged to cover an area of about one million hectares by the end of Fifth Plan.

Non-edible oils for soaps : In 1959 as much as 75 per cent edible oils were used in the manufacture of soap. By 1972 the use of edible oils had dropped to 25 per cent. Efforts have been stepped up to use indigenous sources of non-edible oils such as rice bran oil, mowrah oil, linseed oil, castor oil and solvent oil of groundnuts and minor oils from forest tree seeds. This has not only generated employment in rural India but has saved Rs. 200 million in foreign exchange which would have been spent on the import of 60,000 tonnes per annum of tallow or edible oils.

Castor Oil : Export of castor oil during 1974–75 was 20,420 tonnes valued at Rs. 138 million, while during April-December 1975 it was 21,374 tonnes valued at Rs. 93·20 million.

Inedible castor oil has two significant potentials :

(1) With suitable processing castor oil can be used in the manufacture of soaps to the extent of over 25 per cent thereby relieving to that extent the pressure on other edible oils.

(2) Castor oil has great export potential as it is used for conversion and in the lubricant industry. India and Brazil are the only major sources of castor oil in the free world. If India can export the oil-based chemical equivalent of 20,000 tonnes of castor oil, instead of exporting crude castor oil, the additional foreign exchange earnings would be about Rs. 30 million.

Linseed Oil : Exports fetched Rs. 167 million for the quantity of 19,653 tonnes in 1974–75 and Rs. 185 million for the quantity of 27,219 tonnes during April-December 1975.

Oil-palm : Grown under expert guidance and suitable conditions oil-palm can give higher output of oil per hectare than any other oil-seed crop. For instance, whilst groundnut gives 200 kgs. of oil per hectare in India and 600 kgs. per hectare in most efficient countries, and sunflower gives 360 kgs. of oil per hectare, oil-palm gives 1,800 kgs. of oil per hectare in plantations in Malaysia.

Under a State Government scheme in Kerala saplings germinated from the Malaysian red palm oil-seeds have been planted up to 1976 in an area of 2,500 hectares. The yield will be of the following order (*i*) Red palm oil 4,446 tonnes (*ii*) Kernel oil 616 tonnes (*iii*) Oil cake 616 tonnes.

A similar project has also been sanctioned by the Central Government for Andaman and Nicobar islands on an area of 2,400 hectares.

Lemon-grass Oil : It is chiefly grown in Kerala. India exports more than Rs. 10 million worth of lemongrass oil annually. It is mainly used as a base for some perfumes for the soap-making industry.

Mentha Oil : Mentha farming has been encouraged in the country to save foreign exchange used in the import of mentha oil, an important ingredient in most medicines.

The Kumaon region has been found to be the most suitable area for the cultivation of mentha. The present production of mentha oil is about 200 tonnes valued at Rs. 16 million. This has resulted in the saving of Rs. 10 million in foreign exchange.

Palmarosa Oil : India ranks first among nations producing palmarosa oil, and is the chief supplier of this important raw material for perfumery manufacture, earning foreign exchange worth Rs. 3 million annually.

Pine Oil : The first pine oil factory in the country was started at Hoshiarpur in the Punjab. Three others were set up thereafter. It produces pine oil, dipentine and pine tar. This factory is claimed to have resulted in the saving of foreign exchange to the tune of Rs. 3 to 4 million annually. Another factory to produce high quality pine oil is being set up in Jammu.

RESEARCH : The Central Government has sanctioned Rs. 38 million for a comprehensive all India co-ordinated research project on oil-seeds to be conducted under the Indian Council of Agricultural Research.

The centres for conducting research for different oil-seeds are as follows :

Groundnut : The main centres are at Ludhiana in Punjab for northern region, Tindivanam in Tamil Nadu for south-eastern region, and Rajendranagar in Andhra Pradesh for southern region. The sub-centres are located at Mainpuri, Uttar Pradesh ; Pollachi, Tamil Nadu ; Kadria and Sambalpur in Madhya Pradesh, and Raichur and Dharwar in Karnataka.

Castor : Rajendranagar in Andhra Pradesh, is the main centre and Salem, Tamil Nadu, and Raichur, Karnataka are the sub-centres.

Sesamum : The main centres are at Coimbatore, Tamil Nadu for southern region ; Jubbalpur, Madhya Pradesh for central region; and Sumerpur, Rajasthan for northern region. The sub-centres are at Karimnagar and Visakhapatnam in Andhra Pradesh ; Bhubaneshwar, Orissa ; Urmala, Maharashtra ; and Jhansi, Madhya Pradesh.

Linseed : Kanpur, Uttar Pradesh is the main centre and Patna, Bihar, and Jhansi and Jabalpur in Madhya Pradesh are the sub-centres.

Rapeseed and Mustard : The main centres are at Berhampore, West Bengal ; Kanpur, Uttar Pradesh ; and Hissar, Haryana. The sub-centres are at Purnea, Bihar, Pantnagar, Uttar Pradesh and Gurgaon, Haryana.

VANASPATI

The present licensed capacity in the private sector, after taking into account the revocation of licences where no appreciable progress was made is 1·73 million tonnes pertaining to 120 units and the installed capacity is 1,342,870 tonnes from 84 units. It is not proposed to create any fresh capacity as the existing capacity itself is more than double the demand.

Public Sector : Government Hydrogenation Factory at Kozhikode, Kerala, Ganesh Flour Mills Co., Delhi and Kanpur and Amritsar Oil Works, Amritsar are the factories in the public sector. It has an installed capacity of 48,000 tonnes per annum.

No. of Persons Employed : Between 10,000 and 15,000 directly and about 60,000 indirectly.

Production : During 1977 was more at 590,000 tonnes compared to 544,820 tonnes in 1976.

Exports : In 1974-75 exports totalled 547,618 kgs. valued at Rs. 4·65 million.

Publications : 'Oil and Oil-seeds Journal' a monthly brought out by the Bombay Oil-seeds and Oils Exchange Ltd., Jenabai Bldg., M. Bunder Rd., Bombay 400003 ; 'Oil-seeds Market Review', a weekly market report, 51-A, Mittal Chambers, Nariman Point, Bombay 400021.

PAPER INDUSTRY

BRIEF HISTORY

THE word paper comes from Papyrus a reed growing on the banks of River Nile in Egypt, yet the art of paper making is popularly known to have been invented by the Chinese as early as the third or second century before the Christian era. In India the tradition of making paper by hand can be traced only to the 8th Century A.D. Paper making was considered to be one of the premier domestic cottage industries before the commencement of the British rule. In India the first paper factory was started in Bengal in the latter half of the 18th century by a Christian missionary. The hundred years that followed never saw the laying of a firm foundation for the industry. It was only in 1967 that a real beginning was made when a modern paper mill was established at Bali in Bengal.

Private Sector : There are 75 paper and paper board units in the private sector, with an annual installed capacity of 1·13 million tonnes.

There are three rayon grade pulp units and one paper grade pulp factory all in the private sector. The total installed capacity of the three rayon grade pulp units till 1977-78 was 117,000 tonnes per year. During 1976-77, production was 118,000 tonnes and during 1977-78 it was estimated to be 125,000 tonnes. Output of pulp grade paper was 22,000 tonnes during 1976-77 and was estimated to be 22,000 tonnes during 1977-78. Six more concerns have been issued letters of intent to produce rayon grade pulp.

Public Sector : National Newsprint and Paper Mills Ltd. **(NEPA)** at Nepanagar, Madhya Pradesh is the only unit that produces newsprint in the country and is able to meet only 20 per cent of the demand. Seven schemes for the establishment of a total capacity of 340,000 tonnes of newsprint have been approved.

Security Paper Mill : At Hoshangabad, 45 miles from Bhopal, Madhya Pradesh, set up in 1968 in collaboration with a British firm manufactures annually 28,000 tonnes of special quality paper for currency and bank notes.

No. of Persons Employed : About 65,000.

Ranking in the World Market : India ranks 20th among the paper producing countries in the world.

Production : Total production of all varieties of paper and paper board during 1977 was 906,000 tonnes as against 875,000 tonnes in 1976.

(In tonnes)

Type	1976	1977(P)
Writing and printing paper ..	523,300	536,530
Wrapping and packing paper	199,400	211,200
Paper board	140,800	154,300
Special varieties	11,500	3,600

P. Provisional

Per capita Consumption : (in kgs.) U.S.A. — 227·25 ; Canada — 140·62 ; Japan — 73·48 ; Australia — 56·24 ; India — 1·58.

Projected Consumption ('000 tonnes)

Year	Cultural Paper	Industrial Paper	Newsprint	Total
1978–79 ..	582·6	425·3	259·0	1,266·9
1980–81 ..	644·4	477·9	287·9	1,410·2
1985–86 ..	747·6	565·7	335·5	1,648·8
1990–91 ..	850·7	653·5	383·5	1,887·7

Export & Re-exports of Paper (Rs. million)

Year	Paper & paper board	Articles made of paper pulp, etc.	Total
1969–70	38·40	10·40	48·80
1970–71	39·40	14·70	54·10
1971–72	14·30	15·10	29·40
1972–73	21·40	20·20	41·60
1973–74	43·20	25·90	69·10
1974–75	38·80	36·20	75·00
1975–76	16·20	38·40	54·60
1976–77	15·10	47·50	62·60

Import of Paper (Rs. million)

Year	Paper, paper board and manufactures	Newsprint
1960–61	121·0	59·5
1965–66	134·8	61·8
1969–70	237·4	185·7
1970–71	250·7	187·3
1971–72	349·2	275·9
1972–73	313·6	205·2
1973–74	292·4	178·1
1974–75	595·2	449·9
1975–76	576·8	383·2
1976–77	621·8	472·0

Hindustan Paper Corporation Ltd. (HPC) (Registered Office : Vishal Bhavan, 95, Nehru Place, New Delhi 110024) was established in May, 1970 with the object of establishing new pulp, paper and newsprint mills in the country. Its authorised capital is Rs. 1,000 million and so far the Government has invested Rs. 668·70 million in its equity capital.

The plant in Nagaland with 33,000 tonnes per year capacity is scheduled to go into production in December, 1978. The Kerala newsprint project with 80,000 tonnes per year capacity is scheduled to begin production by the middle of 1979.

Two new projects in Assam, one at Nowgong and the other in Cachar district, each with a capacity of 100,000 tonnes a year had been cleared by the Government from investment angle in March 1977. The approved capital outlay for this project is Rs. 1,142·50 million.

HPC also manages the Mandya National Paper Mills Ltd.

Newsprint : The country's total requirement of newsprint is estimated at 200,000 tonnes per annum. So far there is only one public sector company — National Newsprint and Paper Mills in Nepanagar, Madhya Pradesh. Production of newsprint during 1977–78 was expected to be 60,000 tonnes compared to 57,000 tonnes in the previous year. The annual capacity is 75,000 tonnes.

The Mysore Paper Mills at Bhadravati (Karnataka) is poised for a major expansion involving an investment of Rs. 1,000 million. The Company, which is licensed to produce 75,000 tonnes of newsprint per year, will be the biggest paper producing unit in India in a single location, when the project is completed. The expansion is so planned as to be completed within 30 months. The company is getting ready to deliver the first newsprint consignment by the beginning of 1980.

The Government spends about Rs. 650 million every year to import 1·7 million tonnes of newsprint to meet the demand.

By-Products : There are 30 units manufacturing straw and mill boards, 7 manufacturing carbon paper, 3 manufacturing duplicating stencils, one unit manufacturing cardiograph paper, and one new unit manufacturing speciality papers such as tissue, foil lining, airmail etc.

Hand-made Paper : There are 184 units producing hand-made paper. There are 4,200 workers including full-time, part-time and casual hands in this industry. The output of hand-made paper in 1974-75 was 3,570 tonnes valued at Rs. 13·11 million.

Co-op. Paper Mill : The first co-operative paper mill began production in May, 1976 at Pravaranagar near Shrirampur.

The Pravara Pulp and Paper Mills makes paper from bagasse, wheat chaff and old gunny bags. It has a capacity of 25 tonnes a day.

GENERAL

- Six schemes for the establishment of a total capacity of 166,500 tonnes of rayon grade pulp have been approved.

Letters of intent have been issued to two parties, one in Jammu & Kashmir and another in Himachal Pradesh for setting up new units for the manufacture of paper grade pulp. The total approved capacity is 23,000 tonnes per year.

HPC is investigating the possibility of setting up a speciality paper project in Sikkim. It has also been assisting the State Governments in examining the feasibility of setting up pulp/paper mills in a number of other areas like Himachal Pradesh, North Bengal and Bastar (M.P.).

Training : Paper technology is taught at (1) Birla Institute of Technology and Science, Pilani, Rajasthan (Degree); (2) Forest Research Institute, Dehra Dun, Uttar Pradesh (Diploma); (3) Institute of Paper Technology, Saharanpur, Uttar Pradesh (Diploma and Certificate).

Research : Forest Research Institute, Dehra Dun, Uttar Pradesh was the only well-equipped research body uptil now. Recently Parkhe Research Institute at 1183, Shivajinagar, Fergusson College Rd., Pune 411005 was started to study the various problems of paper industry and to design sophisticated machines for paper manufacture. However, many large mills conduct research for their own requirements.

Some Large Units*:

Andhra Pradesh : Sirpur Paper Mills Ltd., Sirpur-Kaghaznagar, 40,000 ; Andhra Pradesh Pulp & Paper Mills Ltd., Rajamundry, 45,000 ; *Bihar :* Rohtas Industries Ltd., Dalmianagar, 60,000 ; *Haryana :* Ballarpur Paper & Straw Board Mills Ltd., 124, Janpath, New Delhi 110001 (Yamunanagar), 46,000 ; *Madhya Pradesh :* Orient Paper Mills Ltd., 15, India Exchange Place, Calcutta 700001 (Amlai, Sahdol), 75,000 ; *Maharashtra :* Ballarpur Paper & Straw Board Mills Ltd., 124, Janpath, New Delhi 110001 (Ballarpur), 69,000 ; *Karnataka :* West Coast Paper Mills Ltd., Shreenivas House, Waudby Road, Bombay 400001 (Dandeli), 45,000 ; *Orissa :* Orient Paper Mills Ltd., Brajrajnagar, Sambalpur Dist. (Brajrajnagar), 70,000 ; *Tamil Nadu :* Seshasayee Paper & Board Ltd., P.O. Cauvery, Salem Dist. (Pallipalayam, Erode), 35,000 ; *Uttar Pradesh :* Star Paper Mills Ltd., Bajoria Palace, 27, Brabourne Road, Calcutta 700001 (Saharanpur), 39,200 ; *West Bengal :* Bengal Paper Mills Ltd., 14, N. Subhas Road, Calcutta 700001 (Raniganj), 50,000 ; Titaghur Paper Mills Co., Ltd., Chartered Bank Bldgs., Calcutta 700001 (1) Titaghur (2) Kakinada, 65,000.

(As an additional capacity of 112,000 tonnes of paper and paper board was commissioned during 1977, the capacity of some of the above units has undergone change.)

Pulp : 1. *Rayon Grade :* Gwalior Rayon Silk Manufg. Co. Ltd., P.B. No. 37, Kozhikode, Kerala (Mavoor), 60,000 ; South India Viscose Ltd., Race Course, Coimbatore 641018, Tamil Nadu (Coimbatore), 22,500 ; Harihar Polyfibres Ltd., Harihar, Karnataka (Harihar), 36,000.

2. *Paper Grade Pulp :* Central Pulp Mills, 1183, Shivaji Nagar, Fergusson College Road, Pune 411005, Maharashtra (Songadh, Gujarat). The existing capacity was recently expanded to 40,000 tonnes per year.

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* Location of the factory is indicated in brackets and figure following shows the capacity in tonnes per year.

PETRO-CHEMICAL INDUSTRY

GROWTH : The petro-chemical industry was mainly grouped into plastics (polyethylene, PVC, polystyrene, polypropylene), synthetic fibres (polyester, nylon and acrylic), synthetic rubber (styrene, butadiene and polybutadiene) and synthetic organic chemicals as raw materials for plastics, synthetic fibres, dyestuffs, pesticides, synthetic detergents and pharmaceuticals. With the development of process technology using petroleum distillate as the main ingredient, the petro-chemical industry emerged to supply all the basic chemicals that were once derived from coal, alcohol and vegetable oils.

RAW MATERIALS : The raw materials constituting the source for chemicals from petroleum may be divided into three categories : (*i*) gaseous, (*ii*) liquid and (*iii*) solid. Following are some of the important raw materials :

Natural gas : Natural gas is composed mainly of methane, ethane, propane, butane, pentane, hexane and higher hydrocarbons. The quantities of pentane and hexane determine what is known as wetness of the gas. Natural gas is found either associated with crude oil or non-associated. The non-associated gas contains little of the pentanes and above hydrocarbons and as such it is called dry gas. Besides the hydrocarbons, natural gas may contain a certain amount of nitrogen, hydrogen sulphide, carbon-dioxide and helium.

Derivatives : Natural gases provide a basis for the manufacture of lower aliphatic petro-chemicals and ammonia, methanol and their end-products and also carbon black.

Sources : Gaseous sources are found in Naharkatiya and Moran oil fields in Assam and Ankleshwar, Kalol and Cambay oil fields in Gujarat. Whilst the gases in the Ankleshwar and Kalol oil fields are wet with a high percentage of higher hydrocarbons the Cambay gas is dry constituting mainly of methane, ethane and small quantities of propane and butanes. The Gujarat gas is likely to be used for the manufacture of ammonia to feed the fertiliser industry.

Refinery gas : This is the gas produced at various stages in the refinery operations mainly from the straight distillation units and the thermal and catalytic cracking and reforming processes. The cracked gases are generally very rich in olefins and are polymerised to get high octane gasoline where required. They are also a very useful source of petro-chemicals. The distillation gases are generally mostly paraffins and are normally used as fuels in the refinery itself. The refinery gases being rich in butane and propane, have found extensive use as domestic and industrial fuel in liquefied form.

Naphtha : The most popular amongst the petro-chemical raw materials is liquid naphtha.

The international oil crisis has had a decisive impact on the feedstocks for the petro-chemical industry. In India the petro-chemical and fertiliser industries have been planned on the basis of increasing availability of naphtha with the increasing demand for petroleum products. Till the sixties this valuable petroleum product was exported. Its utility as a feedstock for the production of organic chemical and plastics was appreciated in the mid-sixties.

Demand : Current demand for naphtha for 1977–78 is about 2·34 million tonnes against a production of about 2·19 million tonnes requiring an import of 0·15 million tonnes. If the programmed production for fertiliser and petro-chemicals materialises the demand for naphtha during 1978–79 will be 2·9 million tonnes and by 1980–81 about 3·6 million tonnes.

Uses of Naphtha : Nitrogenous fertiliser is a rapidly growing item in underdeveloped countries. Naphtha reforming yields hydrogen, which is required for the synthesis of ammonia, a basic material in fertiliser production. To produce one tonne of ammonia less than a tonne of naphtha is required.

Olefins are the base for the bulk of petro-chemicals produced. Ethylene is the most important followed by propylene and butadiene. The cracking of naphtha to produce olefins is a major commercial process. Naphtha crackers are generally so designed as to give variable ratios of olefins according to market requirements of their end products.

Production of aromatics (e.g. benzene, toluene, xylenes, etc.) from naphtha by reforming is another major use of naphtha. Aromatics are used for the production of synthetic fibres, high quality gasoline, etc.

New Naphtha-based Industries : Among the existing fertiliser plants, four units are at Trombay in Maharashtra, Gorakhpur in Uttar Pradesh, Kota in Rajasthan and Madras in Tamil Nadu. Three fertiliser plants at Goa, Cochin in Kerala and Durgapur in West Bengal were operating at half capacity since they began production in 1973. At full capacity they will consume 500,000 tonnes of naphtha a year. During 1974-75 three more naphtha consuming fertiliser plants were to be erected at Tuticorin in Tamil Nadu, Mangalore in Karnataka and Barauni in Bihar which would need another 600,000 tonnes.

Naphtha requirements for the petro-chemical industries in Bombay and Gujarat are about 990,000 tonnes.

SOME IMPORTANT COMPANIES

Private Sector

Union Carbide India Ltd., Trombay, Bombay, established the first integrated petro-chemical complex in India in 1966, with a 60,000 tpa naphtha cracker (naphtha from H.P.C.) and ethylene capacity of 20,000 tpa. There are also plants for polyethylene (15,000 tpa) and 2-ethyl hexanol (3,600 tpa).

National Organic Chemical Industries Ltd., Thane, Bombay opened a larger petro-chemical complex constructed in 1968 with a naphtha cracker of 225,000 tpa naphtha capacity (from Bharat Petroleum Corpn.) to p 60,000 tpa of ethylene, 35,000 tpa of propylene, 7 of butadiene and 14,000 tpa of benzene. From variety of organic chemicals are produced. **Polyol Industries Ltd.,** which produces 24,000 tpa of HDP an associate company of NOCIL and uses ethyl NOCIL as feedstock. Polyolefins Industries permitted to expand to 30,000 tonnes per annum for HDPE.

Public Sector

Indian Petro-Chemicals Corpn., Ltd., near Vad Gujarat.

Total Envisaged Expenditure : Authorised Rs. 2,000 million ; Paid-up Capital : Rs. 1,800 mill

Aromatics Project has been in operation This project consists of two units namely Dime phthalate (DMT) and Xylenes with the capacity of ing. DMT : 24,000 tpa ; Para Xylene (for captive c sion into DMT) : 17,000 tpa ; and Ortho and Xylene : 25,500 tpa respectively.

Gujarat Olefins Project which is scheduled to missioned shortly, consists of Naphtha Cracker, Butadiene extraction units and Pyrolysis Gasoline genation unit. The products with their respective will be : Ethylene (Polymer grade) 130,000 tpa ; P (Polymer grade) 35,000 tpa ; Propylene (Chemical 43,300 tpa ; Butadiene 22,000 tpa ; Benzene 23,000 Light Pyrolysis Gasoline 29,300 tpa ; Heavy Py Gasoline 34,600 tpa ; Raffinate 8,[illegible] tpa ; Carbon feedstock 17,900 tpa.

Downstream Units : Low Density Polyeth ethylene stream) 80,000 tpa ; Ethylene Glycol ethylene stream) 20,000 tpa ; Propylene unit (usi pylene stream) 30,000 tpa ; Acrylonitrile unit propylene stream) 24,000 tpa ; Acrylic Fibre acrylonitrile) 12,000 tpa ; Polybutadiene Rubber butadiene stream) 20,000 tpa ; Linear Alkyl B (Detergent alkylate) 30,000 tpa.

The second petro-chemical complex, **The Bongaiga Petrochemicals Ltd.,** is being set up at Bongaig Assam, as an adjunct to the one million tonne B Refinery. The petro-chemical complex envisages facture of 30,000 tpa of polyester fibre and 6,000 t ortho-xylene. These will require 80,000 tonnes of a sp cut naphtha out of which 46,000 tonnes will b available from the Bongaigaon Refinery while the ing quantity will be obtained from the Gauhati R

These two petro-chemical complexes are est cost about Rs. 5,500 million.

The IPCL's Research and Development C opened in October, 1973 near Vadodara. It is to be completed in 1977-78 at an estimated cost million.

The Union Govt. has allocated Rs. 240 mil Olefin Project and downstream units of the IP 1978–79. The project is expected to be com 1978–79.

Caprolactam Plant, Near Vadodara, G commissioned in December, 1973 by **Gujarat S Fertiliser Corporation** to produce 20,500 caprolactam and 85,000 tonnes of sulphur 85 tonnes of oleum daily.

Assam Petro-Chemicals Ltd. (Rajgarh Road, C mari, Gauhati 781003 ; factory at Namrup, Par 786623, Assam) was commissioned on 25th J

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tpa : tonnes per annum.

nd commercial production started in August, 1976. After overcoming the initial production and quality roblems, regular production of the quality products vith trade names PETROLITE R-50, for plywood ndustries, PETROLITE R-65 for furniture and toy ndustries (both Urea Formaldehyde Resins) and PETROLITE-M, a U.F. moulding powder for electrical and tablewares industries, is going on.

Petrofils : The Rs. 413 million polyester filament yarn project in the co-operative sector at Vadodara has begun production. It has a capacity of 3,500 tonnes of polyester filament yarn per year.

PETROLEUM INDUSTRY

RIEF HISTORY

REAL foundation of oil industry in the public sector was laid only during the Second Plan period (1956–61) when the Government of India launched a planned rogramme of exploration, production, refining and distriution. The Oil and Natural Gas Commission was set up n 1956 and the Ministry of Petroleum and Chemicals in 963.

Oil exploration had been started by Assam Oil Company/Burmah Oil Company and their associates in the 19th Century confined to the Upper Assam region. From 1949 to 960 the Standard Vacuum Oil Company explored the West Bengal Basin first alone and then with the Government f India as the Indo-Stanvac Petroleum Project. The roject, however, did not succeed, though it produced aluable data which has since been made the subject f very detailed studies. Till May 1976, crude in comnercial quantities was produced only in Assam and Gujarat. Since then, commercial production has begun n the offshore region of 'Bombay High'. Currently, Bombay High crude production is 5 million tonnes per nnum and is expected to increase to 10 million tonnes per nnum by 1980. In addition, crude and gas reserves have lso been established in the associated Bassein, Tapti tructures.

roduction : ONGC, Oil India Ltd. (OIL) and Assam Oil Company Ltd. (AOC) are the only three agencies enaged in the production of crude oil. The production in Gujarat, which is exclusively by ONGC, is about 4·2 nillion tonnes per annum. The production from offshore reas is 5·0 million tonnes. The production in Assam is bout 4·5 million tonnes per annum, of which the contriution from OIL is 3·12 million tonnes.

During 1977, about 1,250 million cubic metres of associaed and non-associated gas were supplied to various ustomers in Gujarat and Assam. Associated gas from the Bombay High field is also available.

rude Demand: The present demand for crude (1977-78) about 24·5 million tonnes, of which indigenous producion is about 10·75 million tonnes. The demand by the end f the decade will be 32 to 34 million tonnes depending n the progress made in improving fuel usage and developg substitutes, particularly coal.

xpenditure on Crude Imports in 1977-78 was about s. 13,200 million for about 14·7 million tonnes.

rice of Imported Crude: As against U.S. $1·28 a arrel in 1970 the price in Jan., 1977 was U.S. $12·81 a arrel representing 10-fold increase.

ipelines : The longest pipeline under construction is tended for the pumping of imported and Bombay High udes from Salaya in the Gulf of Kutch to Mathura finery a distance of about 1,222 kms. A branch from is pipeline will be laid to Koyali refinery to divert some ombay High and imported crudes to this expanded finery.

Oil Companies: There are five oil companies engaged in the refining and marketing of petroleum products. These are Indian Oil Corporation Ltd. (IOC), Bharat Petroleum Corpn. Ltd., Hindustan Petroleum Corporation Ltd. (HPC), Caltex Oil Refining (India) Ltd. (CORIL) and Assam Oil Company Ltd. (AOC). Of these only the last still remains in the private sector. Full ownership of Esso interests in HPC were acquired by Government in October, 1976. Burmah Shell interests in India were fully acquired in February, 1976 under the name of Bharat Refineries Ltd. (later renamed Bharat Petroleum Corpn. Ltd.) Similarly, Caltex interests were fully acquired by the Government in January, 1977 under the name of Caltex Oil Refining (India) Ltd. till it was merged into Hindustan Petroleum Corpn. Ltd. in May, 1978.

In addition to these companies, there are two public sector companies (each with a minority foreign collaboration) — Cochin Refineries Ltd. (CRL) and Madras Refineries Ltd. (MRL) which are engaged only in the refining of petroleum products and one public sector company, Indo-Burma Petroleum Company Ltd. (IBP) which is engaged in the marketing of petroleum products.

Refineries in Operation : There are ten refineries in operation. They are :

Refinery	Capacity (1977) M.M.T.	Crude run (1977)
Assam Oil Co. (Digboi) ..	0·50	0·53
HPCL, Bombay	3·30	2·79
BPCL, Bombay	5·25	4·47
CORIL, Vizag	1·55	1·23
IOC, Gauhati	0·80	0·84
IOC, Barauni	3·30	3·06
IOC, Koyali	4·30	4·20
IOC, Haldia	2·50	1·96
CRL, Cochin	3·30	2·90
MRL, Madras	2·65	2·46
	27·45	24·44

Of the total capacity of 27·4 million tonnes per annum, 26·9 million tonnes per annum are in the public sector. Only 0·5 million tonnes per annum (AOC, Digboi) still remains in the private sector.

Refineries under Construction : There are two refineries under construction — one at Mathura U.P. and the other at Bongaigaon (Assam). The Mathura refinery (IOC) will have a capacity of 6 million tonnes per annum and will be the biggest in the country. It is expected to cost Rs. 3,370 million and to go on stream in 1980-81. The Bongaigaon Refinery and Petrochemicals Ltd. has a design capacity of 1 million tonnes per annum. The fuels sector of this refinery was expected to be on stream in early 1978. An allocation of Rs. 1,300 million has been made for this refinery.

An expansion programme at Koyali refinery started in January, 1974 was expected to be completed in 1978 bringing the capacity of the refinery to 7·3 million tonnes per annum.

Production of Crude Oil ('000 tonnes)

	1975	1976	1977
Quantity	8,283	8,659	10,185
Percentage increase over previous year ..	+10·6	+ 4·5	+ 17·6
Refinery Crude throughput :			
Quantity	21,835	22,762	24,431
Percentage increase over previous year ..	+5·1	+ 4·3	+ 7·3

Consumption : All India consumption of petroleum products.

('000 tonnes)

Product	1975	1976	1977
Light Distillates ..	3,549·0	3,966·0	4,189·0
Middle Distillates ..	11,545·6	12,395·0	13,407·0
Heavy Ends			
Furnace Oil	4,290·5	4,238·8	4,044·0
L.S.H.S.	1,367·9	1,409·0	1,736·0
H.H.S.	145·8	27·0	27·0
Total Fuel Oils ..	5,804·3	5,674·0	5,807·0
Lube Oils	437·0	434·0	461·0
Greases	16·8	17·0	18·0
Total Lube Greases..	453·8	451·0	479·0
Bitumen	706·6	829·0	898·0
Petroleum coke ..	132·3	174·0	146·0
Wax	46·7	45·0	48·0
Others	87·0	104·0	113·0
TOTAL (Products) ..	22,325·3	23,664·0	25,069·0
Refinery Boiler Fuel ..	1,216·0	1,271·0	1,280·0
GRAND TOTAL ..	23,541·3	24,935·0	26,349·0

Crude Import: About 14·0 million tonnes of crude worth Rs. 12,400 million was expected to be imported in 1977-78.

Oil and Natural Gas Commission (Tel Bhavan, Dehra Dun 248001, U.P.).

ONGC is the only public sector undertaking engaged in exploration for and exploitation of crude oil and natural gas resources in various sedimentary basins of the country both onland and offshore. Its operations do not cover certain areas in the North East which have been leased out to Oil India Ltd. and Assam Oil Company. It has also undertaken oil exploration in foreign countries.

ONGC has extended its exploration operations to all sedimentary basins (about 1·41 million sq. kms.) of India. It has at present 13 geological, 240 seismic, 5 gravity magnetic, 2 shallow drilling, 22 electrologging parties and 34 deep drilling rigs in operation in various onland sedimentary basins in the country. Besides 4 offshore drilling units — one is acquired and three on charter hire — are conducting drilling, and production testing operations in the Bombay offshore areas. ONGC has also acquired a seismic vessel 'Anweshak' for conducting geophysical surveys in the various offshore areas. This vessel has been in operation since August 1975.

ONGC has undertaken (upto the end of December 1977) drilling on 182 structures (162 on land and 20 offshore), of which 165 structures had been fully tested and remaining were under testing or drilling. Of the 165 tested structures, 54 had been found to be oil or gas bearing — 36 in Gujarat, 8 in Assam, one each in H Pradesh, Rajasthan & Tripura and 7 in the Bombay shore areas. This gives a success ratio of 1 : 3.

ONGC had by the end of December 1977 drilling of 1,504 wells on these structures with a depth of 3·115 million metres. Of the 1,504 wells, 805 had proved oil bearing, 97 gas bearing, 29 injection wells, 410 wells were dry and the re wells were either under test or to be tested fully or repaired.

As a result of drilling, ONGC has been able to (as on 1-1-1976) 275·37 million tonnes of initial recove reserves of crude oil, (onshore—127·69, offshore—14 and 138,422 million cubic metres of natural gas fro shore areas and the Bombay Offshore areas.

Offshore drilling : The country has 385,000 sq. km offshore shelf area (where water depth is within 200 me ONGC has carried out surveys in the Gulf of Cam Arabian Sea, Gulf of Kutch, Coromandal Coast, ar Krishna-Godavari Delta and the south of Sunder extending westwards and have discovered 18 struc features which are favourable for oil accumulation. mission began drilling for oil in the **Bombay High** S ture in 1973. By the end of December 1977, of th structures drilled, 17 structures were tested and 7 oil/gas bearing.

In order to speed up exploration Govt. of India leased, on production sharing contract, two prom areas to two American companies one off the Kutch C to Messrs. Reading and Bates Oil and Gas Co. and the in the Bay of Bengal to Messrs. Carlsburg Petroleum poration. Messrs. Reading and Bates drilled one well in Kutch area and Messrs. Carlsburg drilled two wells in Bay of Bengal and since they were found dry they dis tinued operations since February, 1976 and May 1976 pectively. Messrs. Asmera Group of Companies of Cana joint venture between three Canadian oil companies ONGC, took up exploration work in the Gulf of Ma under a production sharing contract. After condu seismic surveys the group drilled one well and foun to be dry.

Production—Onshore : Beginning with produ of 100 tonnes of oil per day in September 1961, O has now reached 15,000 tonnes per day. Besides a 2 million cubic metres per day of associated gas is supp to consumers in Gujarat and Assam. By the end of De ber 1977 ONGC had produced and sold 50·45 m tonnes of crude oil and condensate at 15·57 m cubic metres of natural gas and saved the cou over Rs. 17,500 million in foreign exchange. During year 1977-78, ONGC expected to produce 5·62 m tonnes of crude oil from the onland fields in Assam Gujarat.

Production—Offshore : Offshore production on May 21, 1976, from two wells at an initial rate of bbls per day which was gradually stepped up, after tion of the fourth production platform, to 80,000 (about 3·83 million tonnes per annum) by January 1978. After certain modification to the two w production platforms (A&C) the production rate expected to be stepped up to 100,000 bbls per day million tonnes per annum) by June/July 1978. By the of December, 1977, ONGC had produced a total of million tonnes of crude oil from the Bombay field. During 1977-78 the production expected from bay High was around 5·00 million tonnes.

Exports of Petroleum Products for the years 1975 to 1977 (Quantity : In '000 tonnes Value : In Rs. million)

Products	1975		1976		1977	
	Quantity	Value	Quantity	Value	Quantity	Value
Light distillates	92·6	57·9	—	—	—	—
Middle distillates	29·9	27·9	—	—	—	—
Others	43·2	35·6	81·8	76·0	59·0	65·0
Total (petroleum prod.)	165·7	121·4	81·8	76·0	59·0	65·0
Crude oil†	—	—	—	—	—	—
GRAND TOTAL	165·7	121·4	81·8	76·0	59·0	65·0

† Re-exports.

Imports of Crude Oil and Petroleum Products during 1975-1977 (Quantity : In '000 tonnes Value : In Rs. million)

Products	1975		1976		1977	
	Quantity	Value	Quantity	Value	Quantity	Value
1. Crude oil	13,669	9,579·1	13,790	11,240·0	14,700	13,200·0
2. Petroleum products						
Light distillates	39	70·4	164	220·3	221	255·0
Middle distillates	1,229	1,187·2	1,264	1,391·0	1,689	1,972·0
Others	912	630·4	875	628·7	736	591·0
TOTAL : (petroleum products) ..	2,180	1,888·0	2,303	2,240·0	2,646	2,818·0
GRAND TOTAL	15,849	11,467·1	16,093	13,480·0	17,346	16,018·0

Overseas Operations — Iran: ONGC is exploring and developing oil fields in collaboration with AGIP of Italy, Phillips Petroleum of USA and the National Iranian Oil company. The interest of ONGC in this joint venture are looked after by its wholly owned subsidiary company, **Hydrocarbons India Ltd. (HIL).** The share of HIL is one sixth of the oil produced. Till December 1977, the crude oil lifted by HIL totalled 39·46 million barrels.

Iraq : After completion of seismic surveys of this area drilling of a well at Abukhema was commenced on 19th August, 1975. The well after tests, showed presence of oil. Since the rate was below the minimum productive capacity to give it the status of " Discovery oil well " further operations were therefore suspended.

ONGC has also secured a drilling contract for another 5 wells in Iraq. Drilling of the first well on SUBA structure had commenced in 1977. ONGC is also conducting seismic surveys in Iraq under a separate service contract.

Tanzania: Under a contract with Tanzanian Petroleum Development Corporation, ONGC undertook drilling Songo-Songo island in June, 1976. However, due to a blow out the first well was abandoned and a second well showed presence of gas. Exploration continues.

Research and Development : The Geoscience group makes an overall evaluation of all Indian Offshore and Onshore basins, fixes priorities for exploration and draws up broad based exploratory strategy. A new Institute is being set up at Ahmedabad for the study of Reservoir Engineering. It will play an important role in maximising recovery of hyrocarbons from proven oil fields. A feasibility report for the Institute of Drilling Technology has been prepared and will be taken up for implementation during 1978-80. The Institute will tackle drilling problems in difficult areas where high pressures and high temperatures are encountered. The commissioning of a Computer Centre at Dehradun in 1976 helped to process seismic data at a rapid rate and also do mathematical modelling of all the reservoirs.

Oil India Ltd. (H.O. Duliajan, Upper Assam): With its equity held in equal proportion by the Government of India and The Burmah Oil Company, this private sector enterprise is concerned with exploration and production of crude oil and natural gas on its leases in Assam and its transportation to refineries in Gauhati (Assam) and Barauni (Bihar) through its 1,157 km. long oil pipeline system. A limited quantity of crude is also supplied to the Digboi refinery of the Assam Oil Company. The capacity of its pipeline system has been expanded from 3·1 mtpa gross to over 5·1 mtpa to carry additional crude to be supplied by the O.N.G.C. to the Bongaigaon and petrochemical complex when it goes on stream. Natural Gas, mostly associated, is supplied to the Fertiliser Corporation of India (Namrup), the Assam Electricity Board, Assam Petrochemicals Limited, various tea gardens besides injecting the same in the fields for pressure maintenance. Oil India (O.I.L.) ended the year 1977 by producing 3·12 million tonnes of crude oil from its limited concessions of 1990·02 sq. km. of mining leases and 551·668 sq. km. of Petroleum Exploration Licence area which constitute under 2 per cent of the total sedimentary basin available in the country for exploration and development.

The " discovery " well NHK-1 was drilled in 1952-53. As at 1-1-78 about 297 development wells and 86 exploratory wells with a cumulative metreage of 1,264,139 had been drilled by the Company. Out of these wells 262 are oil bearing and 20 are gas producing.

Crude oil production during the calendar year 1977 was 3·12 million tonnes and deliveries to the refineries were 3·066 million tonnes. Gas sales to the market approximated 565 million cubic metres. An outlay of Rs. 376·80 million for 1978-79 has been approved by the Planning Commission.

Indian Oil Corporation Ltd. : (Regd. Office : 254-C, Dr. Annie Besant Rd., Prabhadevi, Bombay 400025). The Indian Oil Corporation comprises two divisions *viz.* Refineries Division and Marketing Division.

Refineries & Pipelines Division (Indianoil Bhavan, Janpath, New Delhi 110001) builds and manages oil refineries of the Corpn. At present, IOC has four refineries at Gauhati (Assam), Barauni (Bihar), Koyali (Gujarat), and Haldia (West Bengal).

Indian Oil is constructing its fifth refinery at Mathura (Uttar Pradesh) with a capacity of 6·0 million tonnes.

This Division also lays oil pipelines and manages Gauhati—Siliguri, Haldia—Barauni—Kanpur, Haldia-Rajbandh and Koyali—Ahmedabad pipelines.

Marketing Division with its headquarters in Bombay is responsible for distribution of petroleum products produced by the four refineries of IOC and two other public sector refineries at Cochin and Madras. This Division also handles crude imports as well as import of finished products.

Started in 1960, its marketing participation in 1976-77 stood at 62·9 per cent. The sales were 19·50 million kilolitres as against 18·51 million kilolitres for the year 1975-76.

Indian Oil has put up its own lube blending plant and also its own drum plant at Madras.

Research & Development Centre : IOC has its own Research & Development Centre at Faridabad near New Delhi. Various engines, rigs, analytical instruments have been imported and commissioned for evaluation and testing of lubricants and other petroleum products. The Centre gives formulations to Indian Oil Blending Limited, a subsidiary of Indian Oil Corporation, for blending all lubricants, specialities etc. Some meligenous lubricants under the brand name 'Servo' have been developed by the Centre for defence, railways, power houses and steel plants etc.

The Centre has obtained international approvals for some of IOC lubricants and is working on getting approval for other grades. With a view to conserving kerosene, the Centre has designed and developed a high efficiency wick stove (Nutan).

Indian Oil Blending Ltd.: A subsidiary fully owned by Indian Oil Corporation Ltd., has two lube blending plants in Bombay and Calcutta and a grease manufacturing plant in Bombay.

Indo-Burma Petroleum Co. Ltd. : (Regd. Off. : Gillander House, N. Subhash Rd., Calcutta 700001). It became a subsidiary of the IOC on 12th January, 1970, and markets motor gasoline and diesel oil of the IOC refineries.

The Company has also diversified into manufacture of sophisticated electronics equipment (both medical and industrial) and special purpose machinery. In 1972 the Company took over the management of Balmer Lawrie Group of Companies.

Bharat Petroleum Corpn. Ltd. : The refinery as Burmah-Shell Refineries Ltd., was incorporated on November 3, 1952 and commenced operations at Trombay on January 30, 1955. It became a public sector undertaking with the new name of Bharat Petroleum Corpn. Ltd., in August, 1977. The crude processing capacity of the refinery is around 6 million tonnes per annum, the actual intake presently is around 4 million tonnes per annum. The refinery has also started processing crude from Bombay High at a rate of 2 million tonnes per annum. This volume is expected to be doubled shortly.

The Refinery manufactures motor spirit, kerosene, aviation turbine fuel, high speed diesel oil, light diesel oil, jute batching oil, fuel oil, bitumen, liquefied petroleum gas, special boiling point solvents, refinery gas, aviation
gasoline, naphthas, mineral turpentines, carbon
feedstock, hot heavy stock and cutbacks.

The total cost of the refinery was about Rs. 260
and the total number of employees engaged in the
categories at present is around 1,013. In its coun
marketing network the company has 5 port
65 depots, 3,241 retail outlets, 17 divisional
3,634 employees.

Chairman and Mg. Director : R. N. Bhatnagar.

Hindustan Petroleum Corporation Ltd. :
fully Indian-owned on October 1, 1976 when the
company's share was bought off by paying 3·1
U.S. dollars for its 26 per cent share. The Corpora
main operations are petroleum refining, manufac
lubricating oil base stocks and marketing of
products. The Corporation has 3,100 employees in its
operations.

Caltex Oil Refining (India) Ltd. :— Has merged
Hindustan Petroleum Corpn. in Feb. 1978 — locate
Visakhapatnam 530001. The installed capacity of
Refinery is 1·6 million tonnes of crude per annum.
Refinery produces liquid petroleum gas, naphtha,
grades of motor gasoline, aviation turbine fuel, mi
turpentine, kerosene, Hi-speed diesel oil, light diesel
furnace oil and asphalt.

Fuel Refinery : Situated at Trombay near Bom
the fuel refinery went on stream in 1954. It was bui
a cost of Rs. 175 million. During 24 years of operat
it has increased its capacity from 1·25 million tonnes
to 3·5 million tonnes/year.

The Secondary Processing Facilities at the F
Refinery were recently expanded to bring them in line
the crude processing facilities of 3·5 million tonnes
year at a cost of Rs. 47·0 million. These facilities will re
in an increased yield of LPG and light and middle di
lates, enabling the Corporation to save an additi
amount of Rs. 12·0 million in foreign exchange annu

Lube Refinery : The lube refinery, originally kn
as Lube India Ltd., a joint sector enterprise between
Government of India and Esso, started operations in
1969 adjacent to the fuel refinery. Original investm
was Rs. 170 million. The refinery uses, as raw mate
the reduced crude from the fuel refinery. It has been ope
ing at 200,000 tonnes per annum higher than the ori
designed capacity of 164,000 tonnes per annum.

Marketing Division : In addition to two lube blen
plants at Bombay and Calcutta, it has 10 divisional
9 bulk plants, 55 depots and nearly 2,000 retail out
Since 1976, the Corporation has launched 89 multi-pur
distribution centres and 20 farm fuel centres to meet
fuel and servicing needs in rural areas. The Corporat
currently accounts for 12 per cent of the country's pe
leum needs.

Chairman and Mg. Director : R. M. Bhandari.

Bongaigaon (Assam) : With capacity of one m
tonnes per annum, this refinery was expected to
stream in 1978. An allocation of Rs. 345 million had
made for this refinery.

Mathura (Uttar Pradesh) : With capacity
million tonnes this refinery is expected to cost Rs.
million, and expected to go on stream by 1980-81, and
be the biggest in the country.

Cochin Refineries Ltd. : (P. Bag 2, Amb
682302, Ernakulam Dist., Kerala). This is a part
refinery project in the public sector, the principal
borators with the Government being Messrs.

Petroleum Co., U.S.A. It was commissioned on 19th Sept., 1966.

The Refinery was originally designed to produce annually 2·5 million tonnes of petroleum products and the capacity has now been expanded to enable it to process 70,000 barrels of crude per day or 3·3 million tonnes annually. The present investment including expansion is Rs. 330 million.

Chairman : A. M. Thomas; *Managing Director :* C. Abraham.

Madras Refineries Ltd. : (Regd. Office and Refinery: Manali, Madras-600 068): The Refinery was incorporated in December 1965. After completion of process engineering design by Bechtel Corporation, USA, the engineering design and construction contract was awarded to Snam Progetti, Italy. The construction was started from January, 1967 and completed by March, 1969. The plant was commissioned in June, 1969. A joint venture of the Government of India (major share-holder), National Iranian Oil Company, Amoco India Incorporated, U.S.A., the Madras Refinery is designed to process 2·5 million tonnes per annum of Darius Crude Oil from Persian Gulf, Iran (50,000 barrels per calendar day and subsequently debottlenecked to process 2·8 million tonnes/year of crude). Products : LPG, motor gasoline, naphtha, superior kerosene, jet fuel, high speed diesel oil, light diesel oil, lube base stocks, furnace oil, asphalt and sulphur.

Capacity : 3·8 million tonnes per annum.

Production : 2·35 million tonnes valued at Rs. 2,355·1 million.

No of Employees : 516 as on 30-6-1977.

Capital : Rs. 128·7 million.

Chief Executive & Managing Director : Dr. M. S. Nadkarni.

Private Sector : Assam Oil Company Ltd. (Digboi, Assam). The Assam Oil Company is a wholly owned subsidiary of The Burmah Oil Company and has drilled 1,001 wells, out of which around 400 are on production with an annual throughput of 58,000 tonnes of crude oil. The AOC Refinery at Digboi processes 0·53 million tonnes of crude oil annually, the balance crude oil being supplied by Oil India Ltd.

Digboi oilfield is the oldest in India and one of the oldest in the world. It continues to produce crude oil, though at a declining rate. The Assam Oil Company, formed by the Assam Railways and Trading Company Limited in 1898, took over the lease concession granted to both the parent company and the Assam Oil Syndicate in 1899. The Burmah Oil Company acquired control of the company in 1921.

Chairman : Alastair Fredrick Down; *Gen. Manager :* Lt. Gen. N. C. Rawlley.

Oil Industry Development Board : It was set up on January 13, 1975 to give financial and other assistance for the development of the oil industry (See also Ministry of Petroleum and Chemicals).

RESEARCH

The ONGC has set up the **Institute of Petroleum Exploration** at Dehra Dun for research and training in the exploration and production phases of the industry. **The Indian Institute of Petroleum** in Dehra Dun was set up under the control of the Council of Scientific and Industrial Research to conduct research and training in the refining and marketing phases of the industry. The Indian Oil Corporation has set up a **Research and Development Centre at Faridabad** for conducting research in the formulation of lubricants and greases.

ALLIED COMPANIES

Engineers India Ltd. : (See chapter on "Government of India Undertakings").

Lubrizol India Ltd. : (Thane-Belapur Road, Turbhe, Thane, Maharashtra). A 51 : 49 equity holding of the Government of India and The Lubrizol Corporation, U.S.A. for the manufacture of antioxidant, dispersant and detergent from the basic raw materials. Entire automotive lubricant additives demand is met through indigenous production.

Chairman : Dr. M. G. Krishna; *Managing Director :* Dr. J. P. Dalal.

Tide Water Oil Co. (India) Ltd. : (8, Clive Row, Calcutta 700001): A public limited marketing company with Government interest, has branch offices at Bombay, Delhi and Madras. Its activities are blending and marketing of all kinds of lubricants, including specialities and manufacturing of greases.

Chairman : R. Lall.

PLASTICS INDUSTRY

BRIEF HISTORY: The Indian plastic industry made a modest start around 1926 with the manufacture of combs, soap boxes, ash trays, etc., from imported materials.

In India, the first plant to be established in the plastics and petrochemicals sector was in 1958 by the Imperial Chemical Industries (ICI).

Location of the Industry : According to a recent survey by the Plastic Institute (Indian Section), there are at present about 5,000 plastic processing units spread all over the country, of which, nearly 4,000 are in the small-scale sector. These units provide gainful employment to around 350,000 workers.

Capital Investment : The current capital investment in plastics industry is about Rs. 3,750 million. To build up an industry of sufficient strength, an annual investment of Rs. 2,500 million for the next ten years is needed.

Per Capita Consumption : The per capita consumption of plastic goods in the country at present is estimated to be just 1 kg. In 1970, the per capita consumption in selected other countries was as follows: West Germany 59 kg., the U.S.A. 45·7 kg., Japan 36·9 kg., India 0·25 kg.

There are over 50 different materials clearly identified as plastics and their number is increasing continuously.

The public sector made its debut with the incorporation of the **Indian Petrochemicals Corpn. Ltd.** (IPCL) at Vadodara in March, 1969 to develop petrochemical projects based on feedstock available from refineries. (See chapter on Petro-Chemical Industry for details.)

Production of Plastic Raw Materials

(in t

Raw Material	Installed capacity in tonnes	1973	1974	1975	1976	1977
THERMOSETS :						
M. F. Moulding Powder ..	1,490	120	102	106	157	173
P. F. Moulding Powder ..	6,200	5,015	4,506	3,592	3,708	4,488
U. F. Moulding Powder ..	5,150	2,055	1,646	1,764	2,234	2,202
THERMOPLASTICS :						
Polyethylene L. D. ..	30,000	28,127	26 546	27,835	26,611	21,407
Polyethylene H. D. ..	30,000	23,001	24,616	22,987	22,822	24,482
Polystyrene	23,500	13,759	9,348	9,091	12,337	14,721
P. V. C. Resins	64,700	49,267	47,432	42,884	46,738	57,021
C. A. Moulding Powder ..	7,200	1,507	1,366	1,003	1,117	911

Imports of Plastic Raw Materials

(Qty. — Tonnes ; Value — Rs. in m

Products	1974–75		1975–76		1976–77	
	Qty.	Value	Qty.	Value	Qty.	Value
P. F. Moulding Powder ..	4	0·03	1	0·05	6	0·06
U. F. Moulding Powder ..	96	0·31	83	0·39	2	0·04
Polyethylene L. D. ..	876	5·68	7,376	31·19	8,193	44·55
Polyethylene H. D. ..	3,153	19·41	1,512	8·40	8,544	46·96
Polystyrene	160	1·29	416	2·74	254	1·82
P. V. C. Resins	707	5·10	405	2·69	309	2·32
C. A. Moulding Powder ..	388	3·78	332	3·03	42	0·32

Exports : Exports of plastics during last five years (in Rs. million) : 1973-74 — 126·8 ; 1974-75 — 154·8 ; 1975-76 — 180·8 ; 1976-77 — 266·4 ; 1977-78 — 265·8.

Export Target : 1978-79 — 400·0.

RUBBER INDUSTRY

RUBBER is obtained from the milky juice called latex of various tropical plants of which only a few like Castilloa, Manihotglaziovii, Ficus Elastica, Funtumia Elastica, Parthenium Argentatum and Hevea Braziliensis are of commercial importance. Hevea Brasiliensis (known as Para rubber) tree accounts for over 95 per cent of the world production of natural rubber.

BRIEF HISTORY :

Columbus is credited with the discovery of rubber during his second voyage to America towards the end of the fifteenth century. He reported the existence of a gum which was used by the natives of America as balls for games. An Englishman used the term 'rubber' in 1770 when he found that the substance could be used for removing pencil marks. With the discovery of the process known as vulcanisation in 1836 by Goodyear, rubber came to be commercially used.

In India rubber was first planted in Travancore and Malabar in around 1880. Plantation on a commercial scale commenced in 1902.

No. of persons employed : More than 160,000.

Ranking in the world market : India is the fifth largest natural rubber producing country in the world after Malaysia, Indonesia, Thailand and Sri Lanka.

Location of Rubber Plantations : Kerala State accounts for about 91 per cent of the total area under rubber and the Kanyakumari District in Tamil Nadu for about 4 per cent with Karnataka, Andaman and Nic Islands, Goa, Maharashtra and the North Eastern States contributing the rest. Table I gives the State-wise break up of rubber growing units and area at the end of the year 1976-77.

Production and Consumption : Production of natural rubber which was 137,750 tonnes in 1975-76 went up to 149,632 tonnes in 1976-77. The production during 1977-78 was expected to touch 155,000 tonnes. Consumption of natural rubber during the last 10 years went up from 68,685 tonnes to 137,623 tonnes. Table II gives the trend in production and consumption since 1973-74.

Per Capita Consumption: In 1975 the per capita consumption of rubber in USA was 12·6 kgs., Canada (kgs., Australia 7·4 kgs., UK 7·8 kgs., Germany (8·3 kgs., France 8·2 kgs., Italy 6·1 kgs., and Japan kgs. In India per capita consumption is as low as 0·2

The **average yield per hectare** in Indian is 806 kgs.

nports : Due to increased indigenous availability Govern-
ent of India imposed a total ban on import of natural
bber from 1973-74 onwards.

However the industry imports certain varieties of
ecial purpose synthetic rubbers. The trend in import of
tural and synthetic rubber since 1972-73 is given in
ble IV.

ubber Goods : The total number of rubber goods
anufacturers in India is around 2,000 units of which
er 100 units are fairly well organised. The annual turn-
er of the industry is estimated to exceed Rs. 7,500
illion and the number of persons employed over
0,000. The industry is spread almost all over the country,
ough heavily concentrated in the States of West Bengal,
aharashtra and Tamil Nadu. With the exception of
aryana, Uttar Pradesh and Kerala, the industry has
ade comparatively little progress in other States. Natural
d synthetic rubbers are the basic raw materials.
her important raw materials include carbon black,
bber chemicals, reclaim rubber, tyre fabrics (nylon/
yon/cotton), bead wire, tyre tube valves and miscella-
ous chemicals. The automotive tyres and tube industry
nstitutes the largest sector of the rubber goods
anufacturing industry. There are 10 companies with
factories manufacturing automotive tyres and tubes.
out 52 per cent of the rubber consumed in the country
used by this sector (including camelback). Cycle tyres
d tubes account for about 14 per cent consumption,
twear about 11 per cent, belts and hoses about 6 per
nt and the balance is accounted for by other products.

port of Rubber Goods : The year 1976-77 witnessed
tremendous spurt in export earnings of Rs. 270 million
om Rs. 145 million during 1975-76, an increase of over 80
r cent.

Earnings from automobile tyres and tubes by way of
port doubled from Rs. 85 million in 1975-76 to Rs. 184
llion in 1976-77.

Export earnings of footwear increased from Rs. 23
llion in 1975-76 to Rs. 35 million in 1976-77, an increase
nearly 50 per cent.

Export value of general rubber goods increased from
. 37 million in 1975-76 to Rs. 51 million in 1976-77, an
crease of about 35 per cent. Export of cycle tyres and
bes in 1976-77 exceeded Rs. 14 million.

nthetic Rubber : Only Synthetic & Chemicals Ltd.,
Bareilly (U.P.) produces synthetic rubber. Built with
initial rated capacity of 30,000 tonnes per annum it
rted production in 1963. The varieties of rubber pro-
ced is styrene butadiene rubber and nitrile rubber
led Chemaprene. Another synthetic rubber factory with a licensed capacity of 20,000 tonnes of poly-butadiene rubber has been established recently by Indian Petro-Chemicals Corpn. at Vadodara (Gujarat) and was expected to start production in 1978. The trend in production, consumption and import of synthetic rubbers since 1972-73 is given in Tables II & III. The consumption of synthetic rubber is about 20 per cent of the total rubber consumption. The tyre industry uses more than 60 per cent of the total synthetic rubber output.

Rubber Development Schemes : The Rubber Board is implementing various schemes for the development of rubber plantations in India. These include grant of subsidy for replantation, grant of loans and aids for new planting and maintenance of small holdings, distribution of high yielding varieties of planting materials, grant of subsidy on the cost of fungicides and fertilisers used by the small holders, grant of subsidy for construction of smoke-house by small holders, distribution of plant protection equipments, grant of financial assistance to co-operative societies for establishing processing centres and undertaking marketing of rubber. The Board also operates an extension and advisory service among rubber growers. Labour welfare measures also form part of the work of the Board.

In 1977 an agreement was signed by the Govt. of India and the World Bank for financial assistance to establish 9 block rubber processing factories in the co-operative sector and expansion of the existing factory in the sector. The project is to be implemented in a phased manner and is to be completed by 1985.

TABLE I

State-wise distribution of the planted area (1976-77)

(Area in hectares)

States	Holdings		Estates	
	No. of units	Area	No. of units	Area
Kerala	133,031	157,546	521	52,177
Tamil Nadu ..	3 242	4,944	45	6,626
Karnataka	242	525	23	7,238
Andamans & Nicobar Islands	—	—	4	938
Andhra Pradesh ..	2	2	1	30
Maharashtra ..	1	4	—	—
Goa	7	27	—	—
Tripura	7	36	1	470
TOTAL ..	136,532	163,084	595	67,479

The number of rubber growing units at the end of March 1977 increased to 137,127 from 132,047 and the total area increased to 230,563 hectares from 132,047 hectares.

TABLE II

Production and Consumption

(Figures in tonnes)

ar	Production				Consumption			
	Natural	Synthetic	Reclaim	Total	Natural	Synthetic	Reclaim	Total
73–74 ..	125,153	23,542	16,977	165,672	130,302	23,921	17,784	172,007
74–75 ..	130,143	17,712	17,531	165,386	132,604	24,376	18,096	175,076
5–76 ..	137,750	25,119	18,603	181,472	125,692	32,452	19,342	177,486
–77 ..	149,632	22,212	20,256	193,100	137,623	33,701	20,957	192,281
–78 ..	146,987	27,228	—	—	144,967	34,751	—	—

Rubber Board: With Headquarters at Kottayam — 686001, Kerala, it looks after development of the industry.

Research: The **Rubber Research Institute** established by the Board has five divisions namely, botany, agronomy, plant pathology, chemistry/rubber technology and plant physiology and exploitation.

The facilities at the Rubber Research Institute have been made available to the Cochin University to conduct a two-year post-graduate course in Rubber Pr
Technology leading to a B-Tech degree. A short term
on Rubber Cultivation, Processing and Estate
is also conducted by the Rubber Board to train
personnel from the rubber estates. The Board
a Tappers' Training School.

TABLE III

World production and consumption of natural and Synthetic Rubber

(in '000 tonnes)

Year	Production		Consumption	
	A	B	A	B
1973	3,505	7,757	3,402	7,575
1974	3,400	7,575	3,512	7,450
1975	3,200	6,855	3,352	7,027
1976	3,540	7,960	3,547	7,915

A: Natural Rubber. B: Synthetic Rubber.
Source: Rubber Statistical Bulletin of the International Rubber Study Group.

Publications: The following are the publications
Rubber Board: 'Rubber' (Monthly), 'Rubber
News' (Monthly), 'Rubber Board Bulletin' (Q
'Indian Rubber Statistics' (Annual).

TABLE IV

Import of natural and synthetic rubber

(in ton

Year	Natural	Synthe
1973–74	52	5,609
1974–75	Nil	6,233
1975–76	Nil	5,928
1976–77	Nil	7,716
1977–78 (Upto Nov.) ..	Nil	5,806

TABLE V

Production and capacity utilization: Tyre and Tubes manufacturing industry

(Million Nos.)

	1972-73			1973-74			1974-75		
	A	B	C (%)	A	B	C (%)	A	B	C (%)
Automotive Tyres No.	4·230	4·300	102	5·455	4·660	85	5·455	4·830	89
Automotive Tubes No.	4·230	4·290	101	4·763	4·280	90	4·763	4·180	88
Bicycle Tyres No.	31·826	20·860	65	28·047	24·080	86	28·047	25·000	89
Bicycle Tubes No.	28·950	13·810	48	27·107	16·220	60	27·107	18·530	68

A = Installed capacity; B = Actual production; C = Utilisation: (%) percentage.

SHIPPING INDUSTRY

BRIEF HISTORY

THE earliest evidence of shipping and ship-building activity is found in the archaeological remains of Mohen-jo-daro, in the Indus Valley, dating back to some 2500-1500 B.C. Ever since, the shipping and shipbuilding industries have passed through various vicissitudes of fortune.

On the eve of the country's independence, in August 1947, India had only 48 coastal vessels of 119,000 GRT and 11 foreign-going vessels of 73,000 GRT.

Position Today: On Jan. 1, 1978, there were 5·35 million GRT in operation and 0·81 million GRT on order.

Ranking in the World: India in terms of GRT occupies the 16th position among the world maritime countries owning a total of 5·35 million GRT as on July 1, 1977.

Among the principal world merchant fleets (as on July 1, 1977), Liberia ranks first owning about (79·98 million GRT) followed by Japan (40·04 million GRT), the UK (31·65 million GRT), Greece (29·52 million GRT), Norway (27·80 million GRT), USSR (21·44 million GRT) and Panama (19·46 million GRT).

National Maritime Day and Merchant Marine Flag Day: 5th April every year.

Indian Register of Shipping: Inaugurated on April 4, 1975 with its head office in Bombay. The National Classification Society supervises shipbuilding and e
in operation ships are properly maintained at the
site standard of sea-worthiness. The Society h
collaboration agreements with the American
Shipping, Det Norske Veritas and Lloyd's Reg
Shipping on the basis of dual class. *Chief*
H. S. Rao.

National Shipping Board: Statutory Advisory
on Shipping on which all the interests concerned,
shipowners, are represented.

SHIPBUILDING INDUSTRY

(See chapter on Government of India U
where details of Hindustan Shipyard,
and Garden Reach Workshops are given.)

A new public sector Cochin Shipyard is being
will have the capacity to build 2 ships a year of
85,000 dwt. each. The first series of ships to be
yard are 75,000 dwt. "PANAMAX" type bulk
The public sector shipyards — Mazagon
Bombay and Garden Reach Shipbuilders and
Ltd., Calcutta — are intended mainly to cater to
requirements but their capacity is also available
construction of merchant ships. The Goa
engaged in shipbuilding activities in addi
general engineering works. The Rajabagan

ged in building inland vessels and harbour crafts such barges, launches, trawlers, tugs and dredgers upto 000 GRT. Two more public sector shipyards are pro-osed to be constructed at Hazira (Gujarat) and Paradip rissa).

There are several small shipyards under private sector read over the country which are capable of constructing harbour crafts and inland vessels such as tugs, barges, launches, dredgers, trawlers etc.

Research Body: The Government of India has decided to establish a research organisation for designing ships. At present India has to purchase designs.

The proposed Central Marine Design Research Organisation will cost Rs. 100 million.

Merchant Fleet in Operation †

	COASTAL		OVERSEAS		TOTAL	
	No. of ships	GRT	No. of ships	GRT	No. of ships	GRT
s on Jan. 1, 1977 ..	80	441,567	279	4,673,185	359	5,114,752
quisition in 1977 ..	+ 1	4,356	+ 22	+ 294,048	+ 23	298,404
eletions in 1977 ..	− 3	7,890	− 8	− 67,714	− 11	75,604
s on Jan. 1, 1978 ..	75	427,845	296	4,926,543	371	5,354,388

During 1977 four vessels of 18,985 GRT were transferred from coastal to overseas and one vessel of 7,172 GRT was verted from overseas to coastal trade.

† Based on the revised figures received from Shipping Companies.

reight earnings: The total freight charter hire d passage earnings of Indian shipping companies in dia's overseas trade during 1975-76 was Rs. 4,913·50 illion. On a rough estimate the earnings during 1976-77 talled Rs. 5,300 million. The net foreign exchange earngs during 1976-77 is estimated at Rs. 2,650 million against Rs. 2,456·80 million the previous year.

RAINING INSTITUTIONS

erchant Navy Training Board at Jahaz Bhavan, alchand Hirachand Marg, Bombay 400038, advises overnment on all matters pertaining to the training of erchant navy personnel.

For other training institutes see chapter on "Education".)

ecruitment of Seamen: The number of seamen egistered with the Seamen's Employment offices as on an. 1, 1977, for employment on foreign-going ships was 8,176 at Bombay and 11,319 at Calcutta. The number of bs available, were 19,058 in Bombay and 7,033 in Calutta.

On home trade ships the number of seamen registered ere 778 at Bombay for 442 jobs and 200 at Calcutta r 114 jobs.

eamen's Welfare: The seamen's welfare offices at the orts of Bombay, Calcutta, Madras and overseas at ydney, London, Liverpool and Glasgow take care of the elfare of Indian seamen. The Principal Seamen's Welfare fficer at London has the additional duties of finding bs for Indian seamen on foreign-owned ships. His risdiction is entire Europe.

NSA: The Indian National Shipowners' Association (Scindia House, Ballard Estate, Bombay 400038) is e national shipowners' organisation founded in 1930. Its objectives are: (1) to promote development of national shipping commensurate with the national needs; (2) to take active measures for the all round development of the maritime industries in all their aspects, (3); to co-ordinate its activities and to co-operate with various national and international organisations on shipping and allied matters; (4) to disseminate information on shipping and allied industries in the domestic and international perspective.

The membership of INSA covers over 97 per cent of national tonnage.

Executives: President: N. H. Dhunjibhoy; *Vice-Pres.:* T. M. Goculdas; *Hon. Treasurer:* Capt. R. D. Kohli; *Secretary-Genl.:* N. K. Gopalan Nair; *Secretary:* B. V. Nilkund.

Indian Coastal Conference: It regulates the coastal shipping operations and freight rates on a voluntary basis. *Chairman:* Smt. Sumati Morarjee.

Directorate General of Shipping (Jahaz Bhavan, Walchand Hirachand Marg, Bombay 400 038) is a Central Government organisation under the Ministry of Shipping and Transport. It is an executive agency of the Government on all matters relating to coastal and overseas shipping.

Inland Water Transport: In order to harness all possible modes of transport for easier and faster movement of goods the Government is considering the development of inland water transport system.

Some of the major schemes included in the inland water transport programme are dredging of Cumberjua Canal in Goa, improvement of Buckingham Canal in Andhra Pradesh and Tamil Nadu, of Champakara and Neendakara Canals in Kerala and construction of jetties and acquisition of ferry crafts for the operation of ferry services on the river Hooghly between Calcutta and Howrah.

SILK INDUSTRY

BRIEF HISTORY: Sericulture in India falls into two ctors, mulberry and non-mulberry. Mulberry silk industry is better organised and accounts for nearly per cent of the natural silk production. The non-erry sector comprises of *tasar*, *eri* and *muga* silk. dia is the only country in the world which produces the four commercially known varieties of natural lk.

LOCATION OF THE INDUSTRY: Andhra Pradesh: Produces mulberry and *tasar* raw silk. Mulberry in the Anantapur and Chittoor districts, and *tasar* in the forest regions along the banks of the river Godavari in Karimnagar, Warangal, Khammam and Adilabad districts. New areas in Srikakulam, Vizag, Medak and Hyderabad districts have also been selected for silk production. About 13,000 persons are employed.

Assam : Produces *muga*, *eri* and mulberry raw silk mostly in Lakhimpur, Dibrugarh, Kamrup and Nowgong districts. Sibsagar is prominent for mulberry production. Recent investigations show possibilities of producing oak *tasar* silk in Garampani area. It is estimated that about 360,000 persons derive their livelihood from silk cultivation.

Due to the formation of Meghalaya, most of the sericultural centres were bifurcated.

Bihar : Bihar ranks first in the production of *tasar* with nearly 63 to 64 per cent of production mainly in the districts of Hazaribagh, Ranchi, Singhbhum, Palamau, and Santhal Parganas. About 100,000 persons derive their livelihood by practice of *tasar* culture and weaving of *tasar* fabrics.

ammu & Kashmir : The univoltine mulberry silk Industry is mainly located in Anantnag, Baramulla and Srinagar in Kashmir valley and Udhampur, Doda, Rajouri and Jammu in Jammu province. It provides employment to about 38,000 persons.

Karnataka : It is the biggest multivoltine mulberry silk producing State in India contributing over three-fourths of the total production. Bivoltine rearings have been introduced of late, during all seasons of the year. Production of this high grade bivoltine silk in 1976-77 was 49·4 tonnes. The industry is concentrated in the districts of Bangalore, Kolar, Tumkur, Mysore and Mandya, and to a small extent in Dharwar, Belgaum and Raichur. *Tasar* production has been started in North Canara and Belgaum districts. About 2 million persons are gainfully employed in the different sectors of the industry.

Madhya Pradesh : Is the second largest producer of *tasar* silk in the country. It is largely based in the districts of Bastar, Bilaspur, Raigarh, and Surguja and to a small extent in Ambikapur, Raipur and Mandala districts. Mulberry is also cultivated to a small extent in Dhar, Indore, and Sehore districts, and provides subsidiary occupation to nearly 40,000 persons.

Maharashtra : Bhandara and Chandrapur districts have traditional *tasar* culture and there is one *tasar* seed farm at Armori ; Mulberry (Tuti) has been successfully experimented at Bhagawati, Kolhar, Shrirampur taluk. Vast areas on either bank of the river Pravara now lying fallow also hold scope for development of mulberry sericulture. About 15,000 people are estimated to be employed.

North Eastern Council States : The north-eastern States comprising of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram and Nagaland hold out scope for large scale-development of the non-mulberry sector, more particularly oak *tasar* in Manipur, Mizoram, Nagaland and Garampani area of Assam. Ericulture is also largely practised in Assam, Arunachal Pradesh, Meghalaya, Mizoram and Tripura. Mugaculture is confined to Assam and parts of Meghalaya. Scope for development of mulberry sericulture is limited and confined to certain pockets of Assam, Manipur, Mizoram and Tripura. At present about 421,000 tribals are practising sericulture. The development programmes initiated is expected to provide additional employment to about 224,000 by 1978–79.

Orissa : *Tasar* is concentrated in Mayurbhanj and Keonjhar districts. Besides ericulture, mulberry sericulture is also practised to a limited extent. About 10,000 are employed.

Punjab : Mulberry silk is produced mainly in the d of Amritsar, Gurdaspur, Hoshiarpur and to some ext in Ferozepur, Patiala, Ropar and Ludhiana.

Tamil Nadu: The sericultural industry is practised districts of Dharmapuri, North Arcot, Salem, Coimbatore and South Arcot. The State Govern an ambitious programme of 200,000 kgs. of raw silk pro tion in the State by intensification of the develop activities, more particularly in the Dharmapuri dis It provides employment to about 30,000 persons.

Uttar Pradesh : Sericulture industry has been on co-operative lines both in the rearing and re sectors. The industry is extensively pra districts of Dehra Dun, Saharanpur, Nainital, Al Tehri Garhwal, Paurigarhwal and to a small extent districts of Etawah, Gorakhpur, Bijnore, Mo Gonda, Rampur, Deoria, Meerut, Chamoli, Pith and Uttarkashi. Seasonal conditions permit raising bivoltine cocoon crops and one multivoltine cocoon per annum, the latter being raised mainly in the foo The State also holds scope for large scale introduct oak *tasar* culture in the hill districts fringing the H layas. Already a beginning has been made for systema development of the industry in the State in collabora with the Board's Regional Research Station functioni at Bhimtal.

West Bengal : West Bengal occupies a prestigious pos tion as a producer of both mulberry and *tasar* silks. It the second largest producer of mulberry raw silk in th country accounting for nearly 17 per cent of the tota output. The industry is practised mainly in the d of Malda, Murshidabad, Birbhum, Midnapore and Bankur and to some extent in Nadia and West Dinajpur districts Total area under mulberry is around 8,000 hectares a present and is likely to go up to 9,200 hectares by th end of the current plan. The State has fixed a produ target of 520,000 kgs. of raw silk by the end of 1978-79.

Production of *tasar* silk is confined to the distr Purulia, Midnapore and Birbhum. Ericulture is pr in Jalpaiguri and Cooch-Behar districts. Produ *tasar* and *eri* silk yarn is presently around 8,000 a 5,000 kgs. respectively. Total employment potential o the industry as a whole is of the order of 400,000 person

Himachal Pradesh : Rears univoltine mulberry silk worms in Kangra and Mandi districts. The other r where sericulture is practised are Una/Hamirpur a Nahan districts. 10,000 persons earn their livelihoo

Manipur: Has both mulberry and *eri* silk cult and potential for *tasar* culture. About 3,000 per employed. A target of 50,000 kgs. of oak *tasar* 1978–79 has been fixed.

Tripura : Sericulture has been recently introduced. Som 2,600 persons have taken up silk cultivation.

Ranking in the World Market : With a prod 2,686 tonnes of mulberry silk and 582 tonnes of wild silk 1976–77 India continued to rank fifth among the silk pro ducing countries of the world. However, India is th country in the world which produces the famed "Muga Silk" and is also the second largest prod *tasar* silk, next only to the People's Republic of C

Production & Consumption of Raw Silk

(in '000 kgs

Year	Mulberry	Non-Mulberry	Total	Imports	Consumption
1973-74	2,421	473	2,894	6	[illegible]
1974–75	2,434	558	2,992	16	[illegible]
1975–76	2,540	555	3,095	19	[illegible]
1976-77	2,686	582	3,268	83	[illegible]

SPUN SILK INDUSTRY: India also produces silk-waste — by-product of reeling sector, which constitutes the basic raw material for the spun silk industry. The total production of silk-waste during 1976-77 was 1,091,000 kgs. mulberry and 258,000 kgs. non-mulberry.

There are three spun silk mills, located at Channapatna in Karnataka, Jagi Road in Assam and Bhagalpur in Bihar having an installed spindleage of 7,500, 3,000 and 3,000 respectively.

On an average 800 to 1,000 tonnes of silk-waste are exported annually.

Tariff Protection: Sericulture industry has been under tariff protection since 1934 which has been extended upto 31st December, 1979. The current rate of protective duty on raw silk is 30 per cent *ad valorem* plus 5 per cent auxiliary duty.

EXPORTS: Following are the figures in million rupees for the last six years. 1972 — 82·123; 1973 — 135·833; 1974 — 135·132; 1975 — 157·551; 1976 — 219·465; 1977 — 300·816.

IMPORTS: Of raw silk over the last six years (in million Rs.): 1972 — 5·71; 1973 — 2·66; 1974 — 4·57; 1975 — 3·76; 1976 — 7·69; 1977 — 19·58.

Central Silk Board: Central Silk Board is a statutory body, presently under the administrative control of the Ministry of Industry. It has been entrusted with the overall responsibility of developing silk industry.

Sericulture is a cottage industry '*par excellence*'. With an agricultural base, industrial superstructure and an essentially labour intensive set up, sericulture is an effective tool for generating gainful employment. Presently it provides whole time and part time employment to more than 3·5 million persons in the rural areas of the country.

The headquarters of the Board are located in Bombay. The Board has set up 4 regional offices to ensure close co-ordination of Central and State efforts to develop the sericulture industry. *Head Office:* Central Silk Board, 'Meghdoot', 95-B, N. Subhash Rd., Bombay-400002. Tele. Add.: 'SILKBOARD', BOMBAY.

Regional Offices: (1) 26/7, Srikantan Layout, Crescent Road, Bangalore 560001. Tele.: 'SILKBOARD'. (2) 4, Tottee Lane, Off Sudder Street, Calcutta-700016. Tele.: 'SILKBOARD'. (3) Flat Nos. 210 & 211, Kirti Mahal, Rajinder Place, New Delhi-110060. Tele.: 'SILKBOARD'. 4) 8, Polo View, Srinagar-190001. Tele.: 'SILKBOARD'.

Inspection Centres: The Board is in charge of pre-shipment inspection for which facilities are available at the Headquarters, the Regional Offices and the three centres listed below :—(1) 44, D. N. Singh Rd., Bhagalpur-812001 (Bihar).; Tele.: 'SILKBOARD'; (2) 58H, Burkit Rd., T. Nagar, Madras-600017. Tele.: 'SILKBOARD'; (3) K 61/158 B, Rajdevi Katra, Bulanala, Varanasi-221001. Tele.: 'SILKBOARD'.

RESEARCH AND SERVICE STATIONS: Mulberry silk sector: Central Sericultural Research & Training Institute, Srirampuram, Manandavadi Rd., Mysore South, Mysore-570008, Karnataka; Central Sericultural Research Station, Berhampore-742101 (West Bengal); Regional Sericultural Research Station, P.O. Kalimpong-734301 (West Bengal); Regional Sericultural Research station, Coonoor-643101 (Tamil Nadu); Research Sub-station, Mugur (Karnataka); Univoltine Research Sub-station, Majra-248171, Via Debra Dun (U.P.).

Tasar silk sector: Central Tasar Research Station, Nirvan No. 1, West End Park, Hehal Post, Ranchi-834005 (Bihar); Regional Tasar Research Station, Bhimtal 263136 (U.P.); Regional Tasar Research Station, Batote 182143 (Jammu & Kashmir); Regional Tasar Research Station, Imphal 795001 (Manipur).

Eri and muga silk sector: Central Eri & Muga Research Station, Titabar-785632 (Assam).

Service Stations: Basic seed stations have been set up for maintenance of germplasm banks and preparation and supply of high quality disease free seeds of parental races. Following stations have been organised so far: **Mulberry Sector:** Central Silkworm Seed Station, P.O. Pampore-192121 (Jammu & Kashmir); **Tasar Sector:** Central Tasar Silkworm Seed Station, Lakha, P.B. No. 15, P.O. Raigarh-496001, Madhya Pradesh.

Price Stability Measures: The Board has established a raw material bank for *tasar* cocoons and raw silk at Chaibasa in Bihar. A similar bank for mulberry raw silk is proposed to be set up soon at Bangalore.

Testing: A Central Silk Conditioning and Testing House has been established by CSB at Srinagar at the same address as its regional office.

Training: A fifteen month post-graduate course is offered at the Central Sericultural Research and Training Institute, Mysore 570008, Central Tasar Research Station, Ranchi (Bihar), and Central Sericultural Research Station, Berhampore (West Bengal). The academic session commences in July every year. The course includes 3 months' intensive training in the practice of sericulture both in the mulberry and non-mulberry sectors. The capacity of the Institute is to train 25 students every year. It also caters to foreign students.

Training at "technician" level is imparted by the sericultural States themselves. Such institutes are at (1) Srinagar (Jammu & Kashmir); (2) Channapatna (Karnataka); (3) Berhampore & Malda (West Bengal); (4) Bhagalpur & Chaibasa (Bihar) and (5) Titabar (Assam).

Refresher course for a short duration of 4 weeks is offered every year for in-service officers sponsored by the State Governments. Special training courses are also organised from time to time to overcome the paucity of technical personnel for manning the various developmental projects including the Central Project Schemes directly implemented by the CSB.

Central Projects: There are 43 Central Projects which are implemented directly by the Central Silk Board. These Projects cover research, training, basic seed production and extension services. The Board has taken up under Central Projects, organisation of bivoltine silkworm seed production centres in the States of Karnataka, West Bengal, Jammu & Kashmir, Tamil Nadu and Andhra Pradesh.

Improvement in mulberry yield per unit area through better farming and or propagation of superior strains is another important item of work under progress. The Board has also organised Regional Tasar Research Stations and Extension Centres to propagate *tasar* rearing on oak plants which are available extensively as nature grown in the sub-Himalayan regions of Assam, Manipur, Uttar Pradesh, Himachal Pradesh and Jammu & Kashmir.

Publications: (1) 'Indian Silk' (monthly); (2) 'Indian Journal of Sericulture' (Annual); (3) 'Silk in India' (Biennial), all brought out by the Central Silk Board.

An interim report submitted by the working group on sericulture to the Government of India has fixed the following financial, physical, export and employment target for the sixth five year plan: (*i*) **Financial Provision:** (1) States scheme: Rs. 600·0 million, (2) Central scheme: Rs. 400·0 million, total Rs. 1000·0; million (*ii*) Production of raw silk at the end of 1982-83: 6,250 tonnes; (*iii*) Export target for the whole plan: Rs. 2,150·0 million; (*iv*) Additional employment to be generated during the plan 800,000.

SMALL-SCALE INDUSTRY

DEFINITION: Small-scale industries are the "Undertakings having investment in fixed assets in plant and machinery not exceeding one million rupees."

The small-scale sector has reported a 13 per cent increase in production for 1977 with total production at Rs. 75,700 million against Rs. 67,000 million in the previous year.

The number of registered small-scale units in the country rose to 269,000 in 1977 compared to 247,000 in 1976.

The share of the small-scale sector in the total exports of the country also increased from 15·97 per cent in 1975-76 to 17·07 per cent in 1976–77. The exports during 1976–77 were valued at Rs. 8,782·3 million against Rs. 6,374·5 million in the previous year, representing an increase of 40 per cent.

Ancillary Industries: Ancillary industries are the "Undertakings having investment in fixed assets in plant and machinery not exceeding Rs. 1·5 million engaged in: (*a*) the manufacture of parts, components, sub-assemblies, toolings or intermediates, or (*b*) the rendering of services and supplying or rendering or proposing to supply or render 50 per cent of their production of the total services, as the case may be to other units for production of other articles; provided that no such undertaking shall be a subsidiary of, or owned or controlled, by any other undertaking".

Apart from the increase in the investment ceiling, the new definition for ancillaries involves changes in the following important respects: (*i*) Units producing intermediates will now be recognised as ancillaries; (*ii*) Units providing servicing facilities, *e.g.* sandblasting machining, pressure cleaning, grinding etc., will be recognised as ancillary; (*iii*) The concept of "parent" unit will now include, small-scale industries also. Thus, one small industry can function as ancillary to another; (*iv*) A unit to be recognised as ancillary should or propose to supply at least 50 per cent of its production to one or more parent units.

Industrial units pertaining to the following 26 industries are being promoted as ancillaries: Metallurgical industries (ferrous and non-ferrous); fuels; boilers and steam generating plants, prime movers; electrical equipment; telecommunications; transportation; industrial machinery (*a.* major items of specialised equipment used in specific machines — including textile accessories, *b.* general items of machinery used in several industries such as the equipment required for unit processes, *c.* other items of industrial machinery); machine tools; agricultural machinery; earthmoving machinery; miscellaneous mechanical and engineering industries; commercial office and household equipment; medical and surgical appliances; industrial instruments; scientific instruments; mathematical, surveying and drawing instruments; defence industries; fertilisers; chemicals (other than fertilisers); photographic raw films and paper; dyestuffs; drugs and pharmaceuticals; paper and pulp including paper products; rubber goods; intermediates for chemical and pharmaceutical industries.

Small-scale ancillary units can be registered even for items for which registration of new units and expansion of existing units is banned provided the unit fulfils other conditions for registration as ancillary units.

Reserved Industries: Following is the list of industries reserved exclusively for development in the small-scale sector:

Food and Allied Industries: Ice cream, dehyd vegetables, pickles & chutneys, vinegar, rice mi dal milling, bread, biscuits, confectionery, [illegible] oil except solvent extracted, mustard oil except [illegible] extracted, sesamum oil except solvent extracted, gro nut oil except solvent extracted, sweetened cash products, poultry feed & ground and processed spic

Textile Products Including Hosiery: Cotton [illegible] knitted, cotton vests knitted, cotton socks knitted, co undergarments knitted, cotton shawls knitted, [illegible] cotton knitted wears, woollen cloth knitted, woo vests knitted, woollen socks knitted, woollen [illegible] knitted, woollen undergarments knitted, woollen [illegible] knitted, woollen shawls knitted, woollen gloves, woo mufflers knitted, other woollen knitted ware, stove wic readymade garments, cotton belting, belt lacing [illegible] measuring tapes — cotton.

Wood and Wood Products: Wooden crates, tea c plywood, seasoned wood, wooden sewing machine co cable drums for AA & ACSR conductors, tent po wooden plugs, handles—wooden and bamboo, teak fabri ted round block, wooden furniture and fixtures, [illegible] storag cupboards, wooden storage shelves & racks [illegible] wood wool slabs.

Paper Products: Waxed paper, bituminised waterproof paper, decorative papers, corrugated pa boards, paper bags, composite containers, paper bo cartons, paper cups/plates, paper envelopes, corrug fibre board containers, paper twines, strings and rop paper cones, paper tubes, drinking straws, paper napki including facial tissue napkins, gummed tape, telepr rolls, stencil paper, tele-tape rolls, slitting of or paper into rolls & sheets, toilet paper rolls and [illegible] paper straps, stickers, labels of gummed paper [illegible] treated tracing paper, gummed paper for stamps, gummed paper other than for stamps, sanitary towels, [illegible] for labels, exercise books and registers, letter pads [illegible] file covers and file board.

Leather and Leather Products Including Footwear: Sole leather, kattai and bunwar leather, picking b leather, leather pickers and other leather accessories [illegible] textile industry, vegetable tanned hides and skin [illegible] finished, chrome tanned hides & [illegible] lining leather from goat & sheep skins, laminated lea belting, harness leather, leather shoes, leather sh upper-closed, leather sandals and chappals, leat garments, leather suitcases and travel goods, [illegible] purses & hand bags, fancy leather goods & other nov items, watch straps — leather, leather cases and covers [illegible] all types, industrial leather gloves & leather wa and laces.

Rubber Products: Rubberised cloth—by doctor's blade technique, canvas hose, tyres — cycle & cycle rickshaw, tubes — cycle and cycle rickshaw, tyre retreading, camel back-tyre retreading materials, surgical gloves — latex, hot water bags — rubber, ice bags — rubber, rubber balloons, rubber hose pipes — excepting wire braided high pressure hydraulic hoses, rubberised canvas hose pipes — excepting wire-braided high pressure hydraulic hoses, rubber tubes, rubber washers, oil seals — rubber, rubber thread, rubbereraser, hard rubber battery containers, rubber to metal bonded parts, O rings — rubber, Latex foam & Latex foam products, microcellular sheets, other dipped latex products except contraceptives & rubber blowing agents — hexamine based.

Plastic Products : Full PVC Footwear — chappals, sandals & shoes, Blow moulded plastic — HD PE/PVC containers — upto 5 litre capacity, Acrylic sheets, Fibreglass reinforced plastic products, Hessian, paper and cloth to polyethylene laminations — straight and sandwitched, H.D. polyethyelene mono-filament, Polypropylene mono filament, Polyethylene films except co-extruded with thickness less than 0·10 mm., Products of polyethylene film as coloured, printed film & bags, Spectacle frames by fabrication or by injection moulding, Polypropylene tubular films except biaxially oriented, Industrial items from engg. plastics, Plastic collapsible tubes, Polypropylene box strapping, Polyethylene and PVC flexible hoses, Polyurethane foam, Polyurethane foam products, Polystyrene foam products. Plastic buttons, Other fabricated plastic products, Plastic combs, PVC pipes and fittings including conduits—upto 100 mm Dia, Zip fasteners—non metallic, Compression moulded plastic products, Plastic rain coats. Plastic bottle caps, Flash light torch cases — plastic, Polyester sheets, other Thermo welded plastic products, Contact lenses & Watch straps PVC.

CHEMICALS AND CHEMICAL PRODUCTS

Laboratory Chemicals and Re-Agents: Ammonium sulphate-Lab, Ammonium fluoride-Lab, Ammonium Carbonate-Lab, Antimony potassium tartrate-Lab, Aluminium sulphate-Lab. Ammonia solution-Lab, Cadmium acetate-Lab, Cadmium carbonate-Lab, Calcium Chloride-Lab, Chromic acid-Lab, Cobalt sulphate-Lab, Cobalt nitrate-Lab, Cupric nitrate-Lab, Cupric sulphate-Lab, Dimethyl sulphate-Lab, Ferrous sulphate-Lab, Lead acetate-Lab, Lead nitrate-Lab, Magnesium trisilicate-Lab, Nickel carbonate-Lab, Nickel formate-Lab, Nitric acid-Lab, Potassium nitrate-Lab, Potassium chloride-Lab, Hydrochloric acid-Lab, Potassium iodide-Lab, Potassium sulphate-Lab, Sodium nitrate-Lab, Sodium oxalate-Lab, Sodium sulphate anhydrous-Lab, Silica gel-Lab, Silver nitrate-Lab. Sulphuric acid-Lab, Acetic acid glacial-Lab, Acetone-Lab, Iso-Amyl acetate-Lab, Amyl alcohol-Lab, Benzene-Lab. Butyl alcohol-Lab, Chloroform-Lab, Diethyl ether-Lab, Ethyl Alcohol-Lab, Ethyl acetate-Lab, Iso amyl alcohol—for milk testing-Lab, Iso-Propyl alcohol-Lab, Methyl alcohol-Lab, Petroleum ether—different distillation ranges-Lab, Petroleum ether — for chromotography-Lab, Toluene-Lab, Nickel sulphate-Lab, Zinc oxide-Lab, Para-Aminophenol-Lab, Potassium citrate-Lab & Cadmium chloride-Lab.

Dye-stuff : Basic dyes, Optical whitening agents for cotton textiles, Azo dyes—direct and acid, Naphthols-AD, ASD, AS-E, AS-G, AS-LC, AS-LRG, AS-BS etc., Phthalocyanine-blue & green, Reactive dyes-cyanuric chloride group, Fast colour bases & Indigo.

Natural Essential Oils : Cashew shell oil, Sandal wood oil, Pine oil—except for composite schemes, Eucalyptus oil, Geranium oil, Lemongrass oil, Palmrosa oil & Other natural essential oils.

Organic Chemicals, Drugs and Drug Intermediates : Para-aminophenol-Indl. grade, Para dichlorobenzene-balls, Cubes etc., Tartaric acid—from maleic anhydride, Dimethyl sulphate — based on methyl alcohol, Pyrazolones, Potassium citrate — Indl. grade, Other citrates, Tartrates, Diethyl phthalate, Dioctyl phthalate, dibutyl phthalate, Dimethyl phthalate, Benzyl chloride, Benzyl benzoate, Paint driers-naphthenates, Octoates, Linoleates, etc. of lead, Cobalt, Manganese, Zinc, Calcium etc., Chlorinated paraffin wax, Fumaric acid, Paracetamol, Glycero phosphates, Glycerophosphoric acid, Lanolin anhydrous, Xanthates, Dichlorophenol, Polyester resins, PVC compounds & Alkyd resins.

Other Chemicals & Chemical Products : Wax candles, Naphthalene balls, Potassium meta bi-sulphite, Barium carbonate, Barium sulphate, Barium sulphide, Sodium sulphide, Sodium thio sulphate, Calcium chloride—Indl. grade, Zinc oxide—Ind. grade, Aluminium hydroxide gel, Zinc nitrate, Nickel sulphate, Nickel chloride, Nickel carbonate, Nickel formate, Copper sulphate, Copper nitrate, Copper chloride, Cadmium oxide, Cadmium iodide, Cadmium nitrate, Cadmium phosphate, Barium chloride, Barium nitrate, Zinc chloride, Zinc sulphate, Copper oxyy-chloride, Copper carbonate, Potassium iodide, Sodium iodide, Precipitated silica, Sulphur powder—other than insoluble, for rubber valcanisation, Sodium chromate, Sodium thiocynate, Magnesium sulphate, Electroplating salts—compounded, Zinc cyanide, Cadmium cyanide, Sodium bichromate, Potassium bichromate, Ammonium bichromate, Artists colours—oil, water and wax based, Red lead paints, Red oxide paints, Wagon black paints, Graphite paints, Paste paints, Shoe polish, Wood polish/French polish, Metal polish, Aluminium paints, Bitumen based paints, Floor polishes, Dry distempers, Laundry soap, Formulated perfumery compounds, Tooth paste, Tooth powder, Hair oils, Safety matches, Fire works, Blue print papers—all Types, Guar gum, Animal glue, Office gum paste, Agarbathies, Sodium silicate, Sealing wax, Industrial adhesives based on starch, gum, dextrin and silicates, Alums including aluminium sulphate—Ind. grade, Potassium silicate, calcium silicate & Synthetic adhesives—rubber latex PF of and PVA based.

Glass and Ceramics : Fire clay, Bricks & blocks, Roofing tiles, Flooring tiles, Mugs and bowls-ceramics, Glass beads, Glass tubes, Scientific laboratory Glass-ware, Micro-cover glasses and slides for microscopes, Glass bangles, Glass holloware by mouth blown and/or semi automatic process, Glass pressed wares, Low tension insulators, Chemical porcelain, Plaster of Paris, Chalk crayons including tailors chalk, Plaster boards, Stoneware jars and bowls-kundies, Salt glazed sewer pipes, Asbestos pipes & fittings — for household purposes only and according to ISI specification, Glazed tiles upto 10 cms. X 10 cms., Reinforced cement concrete pipes upto 100 cms. dia, Graphite crucibles—upto 500 nos. & Silicon carbide crucibles upto 100 nos.

Mechanical Engineering excluding Transport Equipment: Manhole covers — CI, Weights, Circlips, Bright bars, Pressure die casting — upto 4 kg., MS and CI flanges, Conduit pipes metallic, Flexible metallic pipe upto 35 mm dia — for non-pressure applications, Stranded wire, machine shop vices, Mechanical jacks upto 30 tonnes, Hydraulic jacks upto 30 tonnes capacity, Signal ladders, Street light fittings, steel almirah, steel vaults, safes and cash boxes, Meat and food safes — metallic, Metal cabinets — all types, Steel trunks, Tin containers unprinted — other than OTS and cans upto 18 litres capacity, G.I. Buckets, Barrels upto 60 litre cap., Drums upto 60 litre cap., Tin trays, G.I. Bath tubs, Dust bins, Sanitary fixtures — metallic, cocks and valves — water pipe fittings, M.S. Pipes fittings — upto 100 mm. dia, Pressure stove, Wick stoves, Hurricane lanterns, Signal lamps, Hand lamps, Shoe tacks, Shoe eyelets, Umbrella ribs and fittings, Zip fasteners — metallic, Tin cutters, Belt fasteners, Snap fasteners, Pilferproof caps, Gun cases, Doors windows and ventilators metallic, Rolling shutters, Lantern posts and bodies, Aluminium furniture, Adjustable beds — hospital, Iron and steel cots — all types, Storage cupboards — iron and steel, Racks — all types including angular racks — iron & steel, Wheel chairs for invalids, Steel chairs — all types, steel tables — Hospitals, Steel tables — all other types, Trolleys — railway platform drinking water, Trolleys — iron and steel — Hospital

Stretchers — iron and steel, Storage bins — steel, furniture — all other types, Hacksaw frames, Pliers, Screwdrivers, Spanners, Hammers, Anvils, Wood-working saws, Wrenches, Industrial knives, Nail pullers, Chisels, Pincers, Wire cutters, Other hand tools for blacksmithy, carpentry, handforging, foundry, etc., Bolts and nuts — except high tensile and other special types, Rivets of all types including bifurcated Wire adjusting screws, Tumbler locks, Padlocks, Safe/cabinet locks, Door locks, Locks — bicycles, Other locks — except for Automobiles, Chains lashing, Persian wheels, Chaff cutters, Chaff cutter blades, Animal driven implements, Crow-bars, Plough shears/Iron ploughs, Cultivators, Disc harrows, Insecticide dusters — manual, Insecticide sprayers — manual, Forks, Hoes, Levellers, Mowers, Pickers — metallic, Handpumps, Seed treaters, Hand shovels, Sickles, Seed bins, Water lifters, Kudali, Other agricultural implements, Wire nails, Panel pins, Wood screws, Machine screws—except socket head and special types, Gate-hooks, Shoe nails — animal, Hob nails, Builders hardware, Nail cutters, Metallic washers, Barbed wire, Spoons — cutlery, Forks — cutlery, Table knives/household knives, Bread cutters. Other cutlery items, Domestic utensils — brass, Domestic utensils — aluminium, Domestic utensils — bell metal, Domestic utensils — copper, Domestic utensils — iron, Domestic utensils — silver, Domestic utensils — bronze, Domestic utensils — German silver, Pressure cookers, Gas appliances such as cooking ranges, ovens, etc., Gas lighters — mechanical, Razors, Safety pins, Watch straps — metallic, Beam scales, Postal weighing scales, Expanded metal, Welded wire mesh — except for expansion of existing units, Wire gauze and wire netting — metallic — thicker than 100 mesh size, Steel wool, Hair pins, Metal fittings for leather goods and garments, Ghamelas, Blacksmith hearths, Brass dampers, Measuring tapes — steel, Lamp holders, Winnowers upto 5 HP motive power, Wheat and rice threshers upto 5 HP motive power, Seed cleaners upto 5 HP motive power, Grain driers upto 5 HP motive power, Shell huskers upto 5 HP motive power, Reapers upto 5 HP motive power, Cotton delinting machine upto 5 HP motive power, Seed drills upto 5 HP motive power, Other agricultural machinery upto 5 HP motive power, Low speed gear for use in agricultural machines, threshers—made of cast iron/mild steel- -non-heat treated, Diesel engines upto 15 HP—slow speed, Rice and dal mill machinery, Oil crushers, Oil crusher parts, Concrete mixers upto 3 cubic metres capacity, Band saw blades for cutting wooden logs, Room cooler — desert type, Airconditioning ducting, louvres, grills and other sheet fabrication in airconditioning, Centrifugal pumps upto size 10 cm × 10 cm, Air compressors upto 5 HP for spray painting repair shops, Simple cone pulley driven lathe upto 2,000 mm bed length. Turning, boring and threading — addas — small single or multiple operation devices, Bench grinder upto 300 mm diameter, Power hacksaw — mechanical — 300 mm blade size, Coolant pumps, etc., Steadies, Dog plates, Machine vices — machine tool, Carbide-tipped tools single point brazed—carbide bits purchased from manufacturers, Weighing machines/weighbridges (ordinary), File mechanism, Sewing machines — domestic, hand operated — conventional type, Household knitting machine, Absolute filters for biological and airconditioning application, Duplicating machines — other than special type, Bottle washers, Satchet filling machines for pouches, Sheep shearing machine, Double can mixer — dairy equipment, Micro pulveriser — dairy equipment, Rotary driers — dairy equipment, Basket type centrifuges — dairy equipment, Milk cooling and ghee settling equipment — dairy equipment, Evaporating pans — dairy equipment, Butter churn — dairy equipment, Curd mills — dairy equipment, Agitators — dairy equipment, Storage tanks for and all poultry equipments.

ELECTRICAL MACHINES, APPLIANCES & APPARATUS INCLUDING ELECTRONICS

Electrical : Potential transformers 11 kV except f captive consumption, Current transformers 11 kV ex for captive consumption, Boosters, Voltage stabil (domestic), Electric motor 1 HP to 10 HP — AC ex special types, F HP Motor — AC — excluding types, PVC wires — domestic type, VIR wires — type, Table fans, Exhaust fan upto 460 mm, Miniat vacuum bulbs, Torch bulbs, Radio panel bulbs, Cycl dynamo bulbs, Decoration bulbs, Electric irons — ordi autosteam upto 3·63 kg., Electric stoves upto 3 kW, H plates/boiler plates upto 3 nos/upto 4 kW, Cooking range upto 4 hot plates/boiler plates with/without baking over hot cases upto 4 kW, Storage water heaters/geysers up 100 litres capacity/upto 3 kW, Electric kettles/sauce p ring types upto 1·70 litres, Mixers/grinders such as mea mincer, juice extractor, cap. of jar 1 litre max./upto 500 watts 30 minutes rating, Hair driers — all types, H cases upto 113·2 litres, Hot air blowers/heat conve upto 2 kW upto fan size 26 cm/20 cm × 6 cm, Room heaters upto 3 kW, Egg boilers upto 1/2 dozen e Water boilers upto 100 litres capacity, Espresso co makers upto 1·70 litres capacity, Coffee percolat upto 1·70 litres, Immersion water heaters upto 3 kW. Food warmer trays upto 500 watts, Electric auto tandoors. Bread toasters ordinary/auto/semi-auto upto cap. 6 slice Ice cream makers cap. 1 litre for use with domestic refrigerators, Washing machine with/without spin dr upto 3·63 kg. cap./upto 3 kW, Baking ovens with/wi provision for roasting/grilling upto 56·6 litres & 1 kW. Electrical light fittings—reflectors, Electrical wiring accessories, Electrical light fittings—chokes, Electrical light fittings — starters, A. A. conductors upto and including 19 strands, A.C.S.R. conductors upto and including 19 strands, Air break offload isolators upto 11 kW including gang operated, Carbon brushes manufactured from c block, Black adhesive insulating tape—electrical use, Emergency lamps, Electric transmission line hardware o than those manufactured in malleable castings and M clad switches upto 100 amps/miniature circuit bre

Electronic Equipment and Components : Radio C Radio—low cost upto Rs. 250 each, T.V. Antennas, T.V. tuners, T.V. Games, T.V. Booster amplifiers, Radio & T.V. Coils, Amplifiers for entertainment and public add system, Assembly of loudspeakers, Electronic ci lighters, Invertors & Convertors upto 500 volts amper Regulated D.C. power supplies upto 0·01% reg Electronic fan regulators, Dimmers & twilight s Digital clocks, Wire-wound resistors other than professiona types, I. F. Transformers, Air trimmers for pr Transistor headers, Telescopic aerials for radio rece Battery eliminators, Electronic flashgun and hearing

TRANSPORT EQUIPMENT

Boats and Truck Body Building : •Wooden boats — body building, Truck body-building — wooden st and seats for buses and trucks.

Auto Parts Components and Ancillaries and Garage Equipment: Window channels — auto, Wiring h Arms and blades of wind shield wipers, Grease nipple Gun metal bushes, Bulb horns, Hub caps — auto, H pipes and radiator hoses — auto, Horn buttons, K pins/shackle pins — automobile use, Auto leaf Luggage carrier, Ornamental fittings — auto, brake pedal pads auto, Automobile radiators except for ex sion on merits, Radiator grills — auto, Rear view

— auto, Seat cushion, Steering wheels — auto, Sun shades — auto, Side lamp assembly — auto, Spot lamp assembly — auto, Stop lamp assembly — auto, Tail lamp assembly — auto, Ash trays — car fittings, Battery cables and fittings, battery cell tester, electrical fuse boxes — auto, electrical fuses — auto, exhaust mufflers — auto, fan belts, fuel tank caps — auto, fuel lines — auto, handles & locks — auto, armature tester, battery terminal lifters, condensors and resistance testers, fenders spoons and hammers, feeler gauges, flaring tools, gear flushers, puller of all types, ring expanders, ring compressors, screw extractors, spark plug tester & cleaners, stud removers — extractors, toe in gauges, tyre valve pullout tools, tube cutters, flanging tools, valve lifters, valve replacing & resetting tools, camber testing equipment, painting equipments like spray guns, etc., grease guns, tyre inflator — both hand and foot operated, electric horns — auto, other auto rubber components, spokes and nipples — auto cycle & sun visors — auto.

Bicycle Parts, Tricyles & Perambulators : Cycle frames, B.B. axles, B.B. cups, B.B. shells, bicycle tube valves, handles bicycle, bolts & studs and screw-all types-bicycle, bells-bicycles, carrier-bicycle, chains-cycle, chain wheels & adjusters-bicycle lamps-bicycle, chain covers, cones-hub cones-bicycle, cotter pins-cycles, crankshafts-cycles, crank forgings-cycle, crown outer cover-cycle, cycle dynamos, D-nuts-cycles, eye bolt cups-cycle, fork blade crown cover-cycle, fork handles-cycles, frame collars-cycle, guide pins-cycle, handle bar grips, hub oil clips-bicycle, hub axle nuts-bicycle, lock nuts & rings-bicycle, lugs-all types-bicycle, mudguards-bicycle, lamp brackets-bicycle, pedal assembly-cycle, saddle-cycle, shackle rivets-cycle, stands-cycle, spokes & nipples-cycle, hubs and cups-bicycle, rims cycle, other cycle parts and accessories except free wheel, tricycles, tricycles-parts & accessories, perambulator & perambulator parts and accessories.

Miscellaneous Transport Equipment : Hand & animal drawn carriage fittings, *tonga* parts and wheel rings, wheel barrows, animal-drawn vehicles & hand-drawn carts of all types.

MISCELLANEOUS

Mathematical and Survey Instruments : Alidades, chain line base measuring apparatus, cross staff, compass prismatic, dividers, drawing boards, dumpy levels, drawing instruments—engg., diagonal scales, engineers level, engineering scales, French corners, ghat & reed tracers, measuring chain, optical square, protractors, plane meters, plane table equipment, ranging rod, flat rule, set square, slide rule, sextant, triangular scales, tee, T-squares, callipers, drafting machine for designing & drawing offices and other drawing mathematical and survey instruments.

Sports Goods : All types of sports nets, shuttle cocks, hockey sticks, protective equipments for sports like pads, gloves, etc. soft leather goods, dumbels and chest expanders, cricket and hockey balls & football, volleyball and basketball covers.

Stationery Items: Writing inks & fountain pen inks, ball point pens, fountain pens, pen nibs, fountain pens and ball pens components, pencils, hand stapling machine, paper pins, carbon paper, typewriter ribbon, hand numbering machines, pencil sharpeners & pen holders.

Clocks and Watches : Clocks-wall clocks, pendulum type both with mech. movement transistorised movement, except lever type clocks, time-pieces mechanical winding with alarm conventional & watch dials except ornamental high priced dials—simple dials.

Others : Umbrellas, hypodermic needles, sterilisers-stainless steel & aluminium, microscope student and medical use, water meters, pressure gauge — upto 3·52 kg. per sq. cm., revolution counters mech., liquid level controller, thermometres—upto 150C, photographic enlargers, projector including overhead projector, wire brushes, paint brushes, hair brushes, fibre brushes, tooth brushes, brushes-natural bristles, other brushes & mechanical toys.

Banned Items : From time to time, the Office of the Development Commissioner, Small Scale Industries issues a list of items for which there is a complete or partial ban on registration of new units or expansion of existing units. The position regarding banned list obtaining on 1st January 1978 is as follows :

Items banned in toto : 1. Pesticides formulations ; 2. Polyurethene foam ; 3. Transformer oil ; 4. Baby food ; 5. Malted milk food ; 6. Single super phosphate & 7. Items manufactured from indigenous paraffin wax.

Items for which registration of new units and expansion of existing ones is allowed only in backward districts/RIP areas : 1. Manufacture of stainless steel products :— (*a*) Domestic utensils ; (*b*) Wiper blades made of stainless steel strips ; (*c*) Hospital equipment wares and furniture made of stainless steel sheets and strips ; 2. Plastic products made from L.D. & H.D. polythelene ; 3. Cork stoppers ; 4. Wires and cables (aluminium) ; 5. Tin containers and similar products using tin sheet ; 6. ACSR and AC conductors (subject to capacity assessment of the unit) ; 7. Wire drawing of MS and stainless steel in category of thicker gauges upto 18 S.W.G. (subject to capacity assessment of the unit) ; 8. Stainless steel watch straps ; 9. Bright bars (subject to capacity assessment of the unit) ; 10. Washing soap ; 11. PVC footwear ; 12. Zinc oxide.

Items banned except in State where there are no such units in the line : 1. Steel re-rolling mills (Steel includes stainless steel) & 2. Acrylic sheets.

Diversification for manufacture of stainless steel utensils has been permitted to units already engaged in and registered for the manufacture of the following items : 1. Aluminium utensils ; 2. Brass and copper utensils ; 3. Stainless steel dairy equipments & 4. Chemical equipments, stainless steel hospital and surgical equipments.

Registration and Magnitude of Small Scale Sector : Registration of small scale units with the State Industries Departments is purely on a voluntary basis. A Census survey of such registered units under the purview of the Small Industries Development Organisation was conducted in 1973-74.

The survey revealed that registered units employed 1·7 million persons and produced goods worth Rs. 26,000 million in 1972. The estimated production of such registered SSI units in 1977 was of the order of Rs. 75,700 million with an employment of 2·9 million. Including the contribution of unregistered units under the purview of the SIDO sectors production would be of the order of Rs. 124,000 million with an employment of 5·6 million.

State Financial Corporations : (See chapter on 'State Govt. Undertakings' for names and addresses).

Specialised Services : Technical advisory service; workshop and laboratory services; economic services; management consultancy services ; marketing advisory service, managerial and technical training service and other general services which are far too expensive to be privately obtained are given free by the Central Small

Industries Organisation. (Now called Small Industries Development Organisation — SIDO for short.)

Addresses of the **Small Industries Service Institutes** are as follows :—

Andhra Pradesh : Suvarna Vilas, No. 3-4-812; Barkatpura, Hyderabad 500027; **Assam :** Ind. Estate, P.O. Baminimaidan, Gauhati 781001 ; **Bihar :** Prasad Mansion, Rajendra Path, Patna 800001 ; **Gujarat :** Harsiddh Chambers, 4th Floor, Ashram Rd., Ahmedabad 380013 ; 1/5, Jaganath Plot, Rajkot 360001 (branch institute); **Jammu & Kashmir :** (Winter) D-1. Gandhi Nagar, Jammu 180001, (Summer) School of Design Bldg., Karan Nagar, Srinagar 190001 ; **Karnataka :** Rajaji Nagar, Bangalore 560010 ; **Kerala :** Krishna Vihar, Kerala Varma College Rd., Trichur 680004 ; **Madhya Pradesh :** 10, Ind. Estate, Polo Ground, Indore 452001 ; **Maharashtra :** Kurla-Andheri Rd., Saki Naka, Bombay 400072 ; **Orissa :** Mahanadi Rd., Tulsi Para, Cuttack 753001 ; **Punjab :** Ind. Area, 'B', Ludhiana 141001 ; **Rajasthan :** Mirza Ismail Rd., Jaipur 302001 ; **Tamil Nadu :** 65/1, Grand Southern Trunk Rd., Madras 600032 ; **Uttar Pradesh :** 107, Ind. Estate, Kalpi Rd., Kanpur 208001 ; 121, M. Gandhi Rd., Agra 282001 ; E-17/18, Ind. Estate, Naini, Allahabad 211001 ; **West Bengal :** 111 & 112, B.T. Rd., Calcutta 700035 ; **Delhi :** Okhla Industrial Estate, Okhla, New Delhi 110020 ; **Goa :** (Branch) Miranda Building, Margao 403601.

District Industries Centres : In pursuance of the Statement on Industrial Policy (Dec. 1977), the Government of India have decided to set up 460 District Industries Centres, one in each district of the country, for effective development of cottage and small industries widely dispersed in rural areas and small towns of the country. The objectives is to provide, under a single roof all the services and support required by small and village entrepreneurs.

The District Industries Centres are required to undertake economic investigation of the potential for development of the district including its raw material and other resources, supply of machinery and equipment, provision of raw material, effective arrangements for credit facilities, marketing assistance and quality control, research, extension and entrepreneurial training. The Government of India are financing the construction of buildings and the staff according to an overall pattern. Nearly 200 District Industries Centres were expected to become operational by the end of May, 1978, and the remaining by the end of the year.

Backward Areas : Following is the list of industrially backward districts (247) selected to qualify for concessional finance from the financial institutions.

Andhra Pradesh : Anantapur, Chittoor, Cuddapah, Karimnagar, Khammam, Kurnool, Mehbubnagar, Medak, Nalgonde, Nellore, Nizamabad, Ongole, Srikakulam and Warangal. **Assam :** Cachar, Goalpara, Kamrup, Hills, North Cachar Hill, Nowgong and new Lakh district. **Bihar :** Bhagalpur, Champaran*, Darbh Muzaffarpur*, Palamau, Purnea, Saharsa, Santhal ganas, Saran* and new districts of Nalanda, A Nawadah, Gaya, Bhojpur, Begusarai and **Gujarat :** Amreli, Banaskantha, Bhavnagar, B nagadh, Kutch, Mehsana, Panchmahal, Sabarkantha, Surendernagar. **Haryana :** Bhiwani, Hissar**, Jind Mohindergarh**. **Himachal Pradesh :** Chamba, gra*, Kinnaur, Kulu, Lahaul and Spiti, Solan and mur. **Jammu & Kashmir :** Anantnag, Baramula, Jammu, Kathua, Ladakh, Poonch, Rajori, Srinagar, Udhampur. **Karnataka :** Belgaum, Bidar, Bijapur, war, Gulbarga, Hasan, Mysore, North Kanara, South Kanara and Tumkur. **Kerala :** Alleppey, nore, Malapuram, Trichur and Trivandrum. **Mad Pradesh :** Balaghat, Bastar, Betul, Bilaspur, Chhatarpur, Chindwara, Damoh, Datia, Dhar, Guna, Hoshangabad, Jhabua, Khargona, Mandla, saur, Morena, Narsimhapur, Panna, Raigarh, Rajnandgaon, Rajgarh, Raisen, Ratlam, Rewa, Seoni, Shajapur, Shivpuri, Sidhi, Surguja, Tikamgarh, Vidisha and new Sehore district. **Maharashtra :** Aurang bad, Bhandara, Bhir, Buldhana, Chanda, Kulaba, Jalgaon, Nanded, Osmanabad, Parbhani, Ratnagiri, Yavatmal. **Manipur :** All the 5 districts. **Meghala** Garo Hills and United Khasi & Jaintia Hills*. **Nagalan** Kohima, Mokokchung and Tuensang. **Orissa :** sore, Bolangir, Dhenkanal, Kalahandi, Keonjhar, put, Mayurbhanj and Phulbani. **Punjab :** Bhatinda, Ferozpur, Gurdaspur, Hoshiarpur and Sangrur. **Ra than :** Alwar, Banswara, Barmer, Bhilwara, Churu, garpur, Jaisalmer, Jalore, Jhunjhunu, Jhalawar, Jodhpur, Nagaur, Sikar, Sirohi, Tonk and Udaipur. **Sikkim :** All 4 districts of Gangtok, Mangan, Gyalshing and Nam **Tamil Nadu :** Dharampuri, Kanyakumari, Madurai, North Arcot, Ramanathapuram, South Arcot, Thanjavur, Tiruchirapalli and new Pudukottai district. **Tripur** All the 3 districts. **Uttar Pradesh :** Almora, Azamgarh, Badaun, Bahraich, Ballia, Banda, Barabanki, Bulandshahr, Chamoli, Deoria, Etah, Etawah, Faizabad, Farrukhabad, Fatehpur, Garhwal, Ghazipur, Hamirpur, Hardoi, Jalaun, Jaunpur, Jhansi, K Dehat, Mainpuri, Mathura, Moradabad, Pilibhit, garh, Pratapgarh, Rai Bareli, Rampur, Shahjahanpur, Sitapur, Sultanpur, Tehri Garhwal, Unnao and U Kashi. **West Bengal :** Bankura, Birbhum, Burdwan, Cooch-Behar, Darjeeling, Hooghly, Jalpaiguri, Midnapur, Murshidabad, Nadia, Purulia and West pur. Entire area of : **Andaman & Nicobar, Arunac Pradesh, Dadra & Nagar Haveli, Goa, Daman Diu, Lakshadweep, Mizoram, Pondicherry.**

* District as it existed prior to its recent re-organisati

** District as re-organised recently.

SPICES

INDIA has always been the traditional home of spices and has throughout history been associated with their trade. It was for spices that men from strange lands came to the shores of India and bartered their wares. Since then, spices figure in the country's exports.

Indian spices are of the finest quality and today the demand for them has considerably increased in all countries.

PEPPER

Pepper, known as the "King of Spices", is the most important foreign exchange earner. The Indian black pepper is considered to be superior in quality and fetches a export price.

Pepper production in India accounts for about cent of the total world production of about tonnes and, more than 80 per cent of it is exported.

The State-wise break-up of area and production year 1976-77 is given in the chapter on 'Food & culture'.

Export of pepper during 1975-76 totalled valued at Rs. 338·80 million but declined to valued at Rs. 382·35 million during 1976-77.

Per hectare yield of pepper is about 276 kgs. The internal consumption of pepper in 1976-77 was 11,073 tonnes.

An annual production target of 38,000 tonnes has been fixed. So far only 'whole' pepper was being exported. Of late, green pepper (pickled and dehydrated), pepper powder and pepper oleoresin are also being produced and exported in appreciable quantities.

CARDAMOM

Cardamom, known as the "Queen of Spices" earns the second highest amount of foreign exchange among spices. Indian exports amount to 90 per cent of total world exports.

The state-wise break-up of area and production for 1976-77 is as follows :

State	Area ('000 hectares)	Production ('000 tonnes)
Kerala	54·7	1·9
Karnataka ..	39·6	2·4
Tamil Nadu ..	4·7	0·4
Total ..	99·0	4·7

Exports during 1973-74 amounted to 1,800 tonnes valued at Rs. 110·09 million ; in 1974-75 to 1,696 tonnes valued at Rs. 134·18 million ; in 1975-76 to 2,000 tonnes valued at Rs. 195-10 million and in 1976-77 to about 950 tonnes valued at Rs. 130·49 million.

Per hectare yield of cardamom is about 47 kgs.

GINGER

India is the leading ginger producing country and accounts for about 50 per cent of dry ginger output in the world. Our Cochin ginger is regarded as next best to Jamaican ginger.

Area and production of ginger during 1976-77 is given in the chapter on 'Agriculture'.

In 1974-75 India exported 4,681 tonnes of ginger valued at Rs. 35·13 million. In 1975-76 exports amounted to 4,800 tonnes valued at Rs. 41·05 million and during 1976-77 exports of 4,461 tonnes earned Rs. 58·43 million.

Besides dry ginger, ginger oleoresin and ginger oil are also exported at present.

Per hectare yield of ginger is about 1,623 kgs. The internal consumption of ginger in 1974-75 was 33,838 tonnes, during 1975-76 it was 40,876 tonnes which included the import of 519 tonnes and 526 tonnes respectively.

High cost of production in India is a major bottleneck in ginger export.

CHILLIES

The cultivation of chillies is widely scattered throughout the country. Its annual consumption varies from region to region, ranging from about 3·5 kgs. per adult in Andhra Pradesh to around 5 kgs. per adult in Maharashtra. In Punjab, Bihar, U.P. and Orissa consumption is lower. The State-wise break-up of area and production for the year 1976-77 is given in the chapter on 'Food & Agriculture'.

Following are figures of exports : 1974-75 : 499 tonnes valued at Rs. 3·16 million ; 1975-76 : 3,500 tonnes valued at Rs. 31·80 million ; 1976-77 : 3,129 tonnes valued at Rs. 27·22 million.

Per hectare yield of chillies is about 564 kgs. The internal consumption of chillies in 1975–76 was 495,015 tonnes.

TURMERIC

The major turmeric growing States in India are Andhra Pradesh, Maharashtra, Bihar, Tamil Nadu and Orissa. The state-wise break-up of area and production of turmeric during 1976-77 is given in the chapter on 'Food & Agriculture'.

Turmeric has surpassed chillies in the spices trade by becoming the third largest foreign exchange earner.

The exports of turmeric during 1974-75 amounted to 9,227 tonnes valued at Rs. 41·44 million ; during 1975-76 it amounted to 11,800 tonnes valued at Rs. 42·10 million ; and during 1976-77 it was 11,796 tonnes valued at Rs. 44·38 million.

Per hectare yield of turmeric is about 1,794 kgs. The internal consumption of turmeric in 1975-76 was 123,411 tonnes which included an import of 11 tonnes.

The only Exchange in India recognised for forward trading in turmeric is Spices & Oilseeds Exchange Ltd., Wakhar Bhag, P.B. No. 162, Sangli 416416.

SAFFRON

It is the most expensive spice in the world. At present the cultivation of this crop in India is confined to certain pockets of Jammu & Kashmir hills where about 2,048 hectares is currently under the crop.

OTHER SPICES

Other items of spices which are exported from India are coriander seed, celery seed, fenugreek, aniseed, cassia, cummin, curry powder, fennel seed, garlic and bay leaf. Besides whole spices, oil of celery, ajowan, cardamom, ginger, pepper, aniseed, cinnamon, garlic and oleoresin of capsicum and fenugreek are also produced in India.

Exports of these spices during 1974-75 amounted to 9,000 tonnes valued at Rs. 54·50 million, during 1975-76 to 11,200 tonnes valued at Rs. 62·70 million and during 1976-77 to 18,100 tonnes valued at Rs. 107·30 million.

EXPORTS

India's spices exports have increased from Rs. 166 million in 1960-61 to Rs. 613·33 million (51,600 tonnes) in 1974-75 and to an all time record of Rs. 729·60 million in 1976-77 (56,000 tonnes).

The following quantities of oleoresins of pepper, capsicum, ginger and fenugreek were exported during 1975-76.

Countries	Quantity in kgs.	Value in Rs.
Canada	5,554	758,213
Japan	102	12,488
Kenya	2,400	286,090
U.S.A.	34,180	3,549,898
West Germany ..	1,500	166,741
Total ..	43,736	4,773,432

Export Targets

(Quantity in Tonnes)

Year	Pepper	Ginger	Chillies	Turmeric
1980 ..	34,000	9,000	7,000	15,000
1985 ..	37,000	10,000	8,000	17,000

Export Duty : An export duty of Rs. 1·25 per kg. is being levied on export of pepper.

Spices Export Promotion Council, World Trade Centre, Ernakulam, Cochin-682016, Kerala.

GENERAL

Grading of spice commodities according to Agmark specifications has been made compulsory under the Sea Customs Act for export trade.

Regulated Markets : With a view to preventing exploitation of producers and getting better prices for their produce, several markets have been regulated under Agricultural Produce Market Act. About 644 markets for chillies, 331 markets for turmeric, 283 for garlic, 129 for ginger, 183 for cummin and 345 for other spices have already been regulated in different States of India.

Research : The research work on spices is being carried out at the **Central Plantation Crops Research Institute** (I.C.A.R.), Kasaragod and its Regional and Sub-stations.

Development: The Central Government has constituted an **Indian Spices Development Council** consisting of Government officials and non-officials representing the growers and the traders. It reviews the work of development already in progress and recommends further development programmes. These programmes are implemented through the **Directorate of Arecanut & Spices Development** functioning at 1/500, Cannanore Road Calicut 673005, Kerala.

Publications : (1) 'Spices Newsletter' (Monthly) and 'Indian Spices' (Quarterly) brought out by the Spices Export Promotion Council, Cochin ; (2) 'Indian Arecanut, Spices & Cocoa Journal' (Quarterly), Directorate of Arecanut and Spices Development, Calicut ; (3) 'Journal of Plantation Crops' (Half yearly), Indian Society for Plantation Crops, Central Plantation Crops Research Institute, Kasaragod.

STEEL INDUSTRY

BRIEF HISTORY

ALTHOUGH India occupied a pre-eminent position in iron and steel making in the ancient world, the industry on modern lines is about seventy years old. It came into existence with the launching of the Tata Iron and Steel Works at Jamshedpur, Bihar in 1907. Before this, a number of attempts were made in different parts of India to start the industry by both private companies and the Government, but none of these was even moderately successful.

The Jamshedpur steel works went into operation by stages in 1911-12. In 1919 Indian Iron and Steel Company established a unit near Asansol, West Bengal. Meanwhile the first unit in the public sector was put up in Karnataka on the banks of river Bhadra. Production in Mysore Iron and Steel Works began in 1923.

Upto the end of Second World War these three were the only main units in India producing 1·7 million tonnes of pig iron and a million tonnes of steel ingots annually.

The development of modern steel industry began during the Second Five Year Plan with the setting up of three integrated steel plants in the public sector, each with 1 million tonnes ingot steel capacity at Bhilai, Durgapur and Rourkela. These plants came into operation in stages between 1956 and 1962. During this period capacity of TISCO at Jamshedpur and IISCO at Burnpur was doubled. The total ingot steel capacity thus rose to 6 million tonnes. With the expansion of Bhilai to 2·5 million tonnes ingots, Durgapur to 1·6 million tonnes ingots and Rourkela to 1·8 million tonnes ingots, the total capacity of the integrated steel plants was raised to 8·9 million tonnes between 1962-73.

Holding Company : The **Steel Authority of India Ltd. (SAIL)** was set up under the Companies Act on 24th January, 1973, to provide co-ordinated development of both the private and the public sectors.

With the establishment of SAIL, remarkable progress was shown by the Indian steel industry and saleable steel production which was stagnant at around 4·5 million tonnes for almost a decade started looking up. The five integrated steel plants have produced 6·9 million tonnes of saleable steel during 1977-78.

Expansion Programmes : Because of financial and material constraints the expansion programme during the Fifth Plan was expected to be less ambitious. Major contribution to additional production would come from the expansion of the Bhilai and Bokaro plants.

During the Fifth Plan period Bhilai would be expanded from 2·5 to 4 million tonnes and Bokaro from 1·7 to 4·75 million tonnes of ingot capacity.

By 1982-83 the demand for finished steel is likely to be about 10·98 million tonnes. Because of highly improved capacity utilisation in the integrated steel plants and Bhilai and Bokaro Steel plants' second stage of 4·0 million tonnes of ingot steel having gone into operation and also because of the revival of the electric furnaces the domestic availability of finished steel is estimated to be 11·8 million tonnes by 1982–83. India will thus be surplus in steel to the extent of 0·9 million tonnes which will be available for export.

Private Sector

Tata Iron and Steel Company Ltd. (TISCO) (Head Office : Bombay House, Homi Mody St., Bombay 4[illegible]) owns, in addition to the integrated steel plant at Jamshedpur, captive collieries at Sijua, Jamadoba and West Bokaro and an iron ore mine at Noamundi all in Bihar State and iron ore, manganese ore, limestone, dolomite and other mines in Orissa. The steel plant at Jamshedpur is the oldest integrated steel plant in the country. The installed capacity of the plant is 2 million tonnes of steel ingots per annum equivalent to 1·5 million tonnes of saleable steel. The Company produces a variety of semi-finished and finished steel items like blooms, billets, tin bars, rails, structurals bars, electrical steel sheets, strip, plates, black and galvanised sheets, rolled rings, railway wheels, tyres and axles, and ferro-manganese, agricultural tools, sulphate of ammonia and benzol products.

Public Sector

Besides the steel plants at **Bhilai** (Madhya Pradesh), **Rourkela** (Orissa), **Durgapur** (West Bengal) and **IISCO** at Burnpur which come under **Steel Authority of India Ltd. (SAIL)** there is the **Bokaro Steel Plant** in Bihar which is being constructed with the help of the Government of USSR since 1966. The agreement was signed on January 25, 1965. The first stage of 1·7 million tonnes ingots has since been completed and the plant has started marketing finished hot rolled and cold rolled products. Bokaro and Bhilai Steel plants' expansion to 4 million tonnes ingot steel annual capacity is going on side by side.

There is also the **Visvesvaraya (Mysore) Iron and Steel Ltd. (VISL)** at Bhadravati, Karnataka. It was started in 1923 as a small blast furnace and was expanded from time to time and is now one of the main producers of alloy and special steels in the country. In addition, it also manufactures ferro-silicon cement, castings etc. It is now a joint undertaking of the Government of Karnataka and Government of India through SAIL.

New Steel Plants : The **Salem Steel Plant** is estimated to cost Rs. 5,168·8 million according to the consulting engineers, Messrs. M. N. Dastur & Co. A committee has studied the report and has made its recommendations to the Steel Authority of India. 1,545 hectares of land has already been acquired and production in the first phase is expected to begin by September 1981.

Investment decisions on the other two plants — Visakhapatnam (Andhra Pradesh), and Vijaynagar (Karnataka) — are expected to be taken after a thorough study of plant capacity, product-mix and capital and operation costs. The detailed project reports for both the plants have been received from the consultants and are under scrutiny by Experts Committee.

Ranking in the World Market : India which ranked only 30th in the world ranking (non-Communist bloc) of steel producers during 1974 moved up to 11th position in 1977.

PRODUCTION

Production of saleable steel during 12 months ended March 31, 1978, reached 6·9 million tonnes.

BHILAI STEEL PLANT

Equipment : 7 batteries with 455 coke ovens and by-products recovery plants, 4 sintering machines, 6 blast furnaces, 10 open hearth furnaces (5 of 250 tonnes capacity each and 5 of 500 tonnes capacity each), 2-Hi reversing blooming and slabbing mill, continuous billets mill, rail and heavy structural mill, merchant mill, wire rod mill.

Products : Pig iron, billets, heavy rails, heavy structurals, light rails and merchant products, rods, granulated slag, tar distillation products, benzol rectification products, ammonium sulphate etc.

Capacity : 2·5 million tonnes ingots, 2,970,000 tonnes pig iron (hot metal), 905,000 tonnes pig iron, 315,000 tonnes billets, 500,000 tonnes heavy rails, 250,000 tonnes heavy structurals, 500,000 tonnes merchant products, 00,000 tonnes wire rods, 700,000 tonnes of granulated slag, 116,445 tonnes tar products, 29,250 tonnes benzol products and 52,100 tonnes ammonium sulphate. The plant is under expansion to 4 million tonnes of ingot steel capacity per year.

DURGAPUR STEEL PLANT

Equipment : Coal washery, 4 batteries with 312 coke ovens and by-products plant, 2 sintering machines, 4 blast furnaces, de-siliconising plant, eight 220 tonne and one 20-tonne stationary basic open hearth furnaces × 42″ blooming mill, 32″ intermediates mill, a continuous billet mill, 24″ medium section mill, a fish plate plant, a merchant mill, 260 tonnes sleeper press, wheel and axle plant and skelp mill.

Products : Pig iron, forging blooms, forging billets' re-rolling billets, light and medium sections, light rails' merchant sections, sleepers, fish plates, wheels, axles, skelp, tar products, benzol products and ammonium sulphate.

Capacity : 1·7 million tonnes pig iron (hot metal)' ·6 million tonnes ingots, 28,000 tonnes forging blooms, 0,000 tonnes billets for re-rolling, 42,000 tonnes forging billets, 11,000 tonnes fish plates, 70,000 tonnes sleepers, 200,000 tonnes light and medium sections, 240,000 tonnes merchant sections, 93,000 tonnes wheels and axles, 250,000 tonnes skelp, 300,000 tonnes of pig iron for foundries, 70,020 tonnes of tar products, 15,160 tonnes of benzol products and 26,200 tonnes ammonium sulphate.

Production of Steel Ingots (In million tonnes)

Plants	Annual rated capacity	Production 1976-77	Production 1977-78
A. INGOT STEEL			
Bhilai	2·500	2·302	2·371
Durgapur	1·600	1·091	1·092
Rourkela	1·800	1·503	1·409
Bokaro	—	0·956	0·933
Sub-Total SAIL ..	5·900	5·852	5·804
TISCO	2·000	1·908	1·968
IISCO	1·000	0·677	0·651
TOTAL	8·900*	8·427	8·424
ASP	100·0	94·8	0·097
VISL	182·0	137·3	0·103
B. SALEABLE STEEL			
Bhilai	1·965	2·019	1·930
Durgapur	1·239	0·901	0·864
Rourkela	1·225	1·174	1·178
Bokaro	—	0·736	0·815
Sub-Total SAIL ..	4·429*	3·792	4·787
TISCO	1·500	1·150	1·601
IISCO	0·800	0·542	0·506
TOTAL	6·729	6·922	6·894
ASP	0·060	0·047	0·049
VISL	0·119	0·087	0·073
C. SALEABLE PIG IRON			
Bhilai	0·905	0·855	0·699
Durgapur	0·300	0·204	0·102
Rourkela	—	0·063	0·016
Bokaro	0·880	0·707	0·512
TOTAL	2·085	1·829	1·329

* Excluding Bokaro under construction/gestation.

ROURKELA STEEL PLANT

Equipment : 5 batteries with 330 coke ovens and by-products plant, 2 sintering machines, 4 blast furnaces, three 50-tonne L. D. converters, two 60-tonne LD convertors, four 80-tonne stationary basic open hearth furnaces, 2 Hi reversing blooming and slabbing mill, 4 Hi heavy plate mills, semi-continuous hot wide strip mill consisting of a roughing train with 4-Hi reversing stand and 4 Hi non-reversing stand and finishing train with six continuous 4 Hi stands, electrical sheets mill consisting of three 2 Hi hot rolling stands and three 2 Hi temper roll stands, cold reducing mills consisting of two single stand 4 Hi cold rolling mill, one 4 Hi five stand tandem mill, 2 single stand, 4 Hi skin pass mill, and one 4 Hi twin stand skin pass mill, 6 hot dipped tinning lines, electrolytic tinning lines, two coil galvanizing lines, one ERW pipe plant producing pipes with OD $8\frac{5}{8}''-20''$ and one spiral weld pipe plant producing pipes of OD 14″-64″.

Products : Heavy, medium and light plates, hot rolled coils, sheets and strips, cold rolled coils, sheets and strips, hot dipped and electrolytic tin-plates, galvanized coils and sheets, electrical steel sheets, ERW and spiral weld pipes. In addition, ammonium sulphate, tar distillation products and benzol rectification products, calcium ammonium nitrate from the fertilizer plant.

Capacity : 1·8 million tonnes of steel ingots, 1·6 million tonnes of pig iron (hot metal); 280,000 tonnes of wide plates, 139,000 tonnes of hot rolled sheets, strips and narrow plates, 260,000 tonnes cold rolled sheets and strips, 160,000 tonnes of galvanised plain and corrugated sheets, 50,000 tonnes of electric steel sheets, 50,000 tonnes of hot dipped tin plates, 150,000 tonnes of electrolytic tin plates, 75,000 tonnes of ERW pipes and 55,000 tonnes of spiral weld pipes In addition to total saleable steel, 69,950 tonnes of tar products, 14,150 tonnes of benzol products, 26,200 tonnes ammonium sulphate and 459,200 tonnes calcium ammonium nitrate (25 per cent nitrogen) capacity exists.

BOKARO STEEL PLANT

Equipment : Under 1·7 million tonnes stage plant, 4 batteries of 69 ovens each and by-product plant, 2 sintering machines, 3 blast furnaces, 4 LD converters each of 100 tonne capacity, one 1,250 mm universal slabbing mill, one continuous 2,000 mm hot strip mill and cold rolling mills comprising one 4 stand tandem mill.

Products : Pig iron, hot rolled sheets, cold rolled sheets, tar distillation products, ammonium sulphate etc.

Capacity : 1·7 million tonnes of steel ingots, 2·735 million tonnes of pig iron (hot metal), 880,000 tonnes of hot rolled sheets and slit coils, 475,000 tonnes of cold rolled sheets and slit coils and 880,000 tonnes of pig iron for sale.

The plant is being expanded to 4·0 million tonnes ingot steel capacity.

ALLOY STEEL PLANT

Equipment : Two 50 tonne and one 10 tonne electric arc furnaces; one 2 tonne and one 1/2 tonne high frequency induction furnace; blooming mill, bar mill, sheet mill, forge shop with 4 pneumatic hammers (250 kgs., 500 kgs., 2 tonnes and 5 tonnes) and one 2,000 tonne press.

Products : Alloy steel ingots, forged products, rolled billets, bars and sheet products.

Capacity : 100,000 tonnes steel ingots, 3,350 [illegible] forged products, 39,250 tonnes of bar [illegible] tonnes of sheet products. Total saleable steel 60,[illegible] The plant capacity is being expanded to 160,000 [illegible] of ingots per annum.

Indian Iron & Steel Company Ltd. (IISCO) [illegible] tered Office: "IISCO House", 50, Ch[illegible] Calcutta 700071) is an iron and steel man[illegible] complex with an integrated steel plant at Burn[illegible] Bengal), its own mines and collieries, and a [illegible] at Kulti. The rated capacity of the plant at Burn[illegible] under a massive rehabilitation programme, is one [illegible] tonnage of ingot steel and 0·8 million tonnage of f[illegible] steel. The plant was taken over by the Go[illegible] India in 1973.

EXPORTS

Due to increased domestic demand during [illegible] the exports of iron and steel secured Rs. 2,272·9 [illegible] only as compared to Rs. 3,318·5 million in 1976-77.

Research: The National Metallurgical Labora[illegible] Jamshedpur, Bihar since its inception in 1950, [illegible] orienting its research and development program[illegible] the needs of the metal and mineral based industr[illegible]

The Research & Development Centre of the Steel [illegible] rity of India Ltd. plans and co-ordinates the resear[illegible] development activities for the steel industry. T[illegible] is situated at Ranchi. The R & D plan for iron [illegible] industry has been drawn in consultation with the N[illegible] Committee on Science & Technology, Deptt. of Scie[illegible] Technology and the Planning Commission.

Training: Graduate courses in metallurgy are avail[illegible] in several universities. For details, see the [illegible] Education.

All the integrated steel plants in the country have [illegible] staffed and well equipped training institutes in [illegible] ing is imparted in various branches to the [illegible] engineers recruited by the steel plants for their [illegible] cadre. These institutes also impart short-term [illegible] training to promising engineering students as [illegible] apprentices in various trades.

Publications : 'Statistics for Iron and Steel I[illegible] in India — 1974', SAIL, New Delhi ; 'Iron & [illegible] Control Monthly Bulletin', Iron & Steel Co[illegible] N. Subhas Rd., Calcutta 700001 ; 'Iron & Steel R[illegible] a monthly, 10, Chowringhee Rd., Calcutta 700013.

SUGAR INDUSTRY

BRIEF HISTORY

SUGAR manufacture in India got a spurt after the Government granted it protection in 1932. From dependence on imports the country became self-sufficient within four years thereafter.

In 1931-32 there were an estimated 32 working units. By 1935-36 the number rose to 130. The volume of sugar production which was 162,000 tonnes in 1931-32 increased to 947,000 tonnes by 1935-36.

LOCATION OF THE INDUSTRY : Area under sugarcane cultivation in major producing States in 1977-78 was as follows (in '000 hectares): Andhra Pradesh: 135; Bihar: 126; Haryana: 175; Karnataka: 106; Maharashtra: 284; Punjab: 117; Tamil Nadu: 142; Uttar Pradesh: 1,478; Total (All India): 2,775.

State-wise break-up of the sugar factories in 1976-77 given in brackets:

Andhra Pradesh (22); Assam (2); Bihar (27); G[illegible] Gujarat (10); Haryana (5); Karnataka (19); K[illegible] Madhya Pradesh (6); Maharashtra (61); N[illegible] Orissa (3); Pondicherry (1); Punjab (6); Ra[illegible] Tamil Nadu (19); Uttar Pradesh (79); West [illegible] Total (271).

The total installed capacity in 1976-77 season was 5·2 million tonnes.

Public Sector : There are 17 sugar factories in the [illegible] sector at present. The state-wise break-up is as [illegible] Uttar Pradesh: 7; Andhra Pradesh: 4; Karna[illegible] Rajasthan: 1; Nagaland: 1; West Bengal: 1; [illegible]

No. of Persons Employed : The Industry [illegible] about [illegible] workers and about [illegible] are connected with it. The annual wage bill [illegible] about Rs. 1,000 million.

Capital Investment : A total of about Rs. [illegible] is invested in this industry.

anking in the World Market : India is the fifth major igar producing country in the world, the first four being .S.S.R., Brazil, U.S.A. and Cuba in that order.

RODUCTION AND CONSUMPTION : Compa-tive figures of production and consumption of sugar r the last three years are :

(In million tonnes)

	1974-75	1975-76	1976-77
roduction	4·79	4·26	4·84
onsumption	3·47	3·66	3·75

tate-wise Production of sugar for the years 1975–76 nd 1976-77 respectively was as follows (figures in tonnes) : ndhra Pradesh : 325,999, 283,935 ; Assam : 7,287, 7,424 ; ihar : 176,727, 199,321 ; Goa : 6,594, 6,232 ; Gujarat : 4,961, 229,059 ; Haryana : 10,701, 12,205 ; Karnataka : 60,793, 420,772 ; Kerala : 7,322, 14,346 ; Madhya Pradesh: 7,960, 43,179 ; Maharashtra : 1,605,713 ; 1,558,787 ; agaland : 4,928, 5,993 ; Orissa : 9,412, 9,759 ; Pondi-herry : 16,532, 26,112 ; Punjab : 82,073, 86,099 ; ajasthan : 32,740, 32,192 ; Tamil Nadu : 181,810, 21,547 ; Uttar Pradesh : 1,163,581, 1,471,266 ; West U.P. : 18,521, 494,163 ; Central U.P. : 471,551, 597,302 ; East P. : 273,509, 379,801 ; West Bengal : 10,026, 13,078 ; ll India total : 4,261,027, 4,840,305.

ugar-cane and Gur : State-wise production of sugar-ane and gur ('000 tonnes) respectively for 1976–77 as as follows :—

Andhra Pradesh : 10,522·3 and 1,131·0 ; Bihar : 7,175·8 nd 427·6 ; Haryana : 7,280·0 and 728·0 ; Maharashtra : 1,498·9 and 2,382·5 ; Karnataka 8,802·2 and 880·2 ; amil Nadu : 13,162·8 and 1,437·6; Punjab : 5,910·0 and 91·0 ; Uttar Pradesh : 68,109·1 and 6,810·9 ; Total ll India) : 154,023·1 and 15,836·6.

lain By-products : Production of the two main by-roducts over the last three years is given below.

(In million tonnes)

ear	Molasses	Bagasse
974-75	2·01	15·62
975-76	1·70	13·14
976-77	2·06	15·50*

* Estimated.

There are about 98 distilleries in the country with an nnual installed production capacity of 518,344 kilolitres. here are also 7 paper factories which supplement their w material with bagasse.

er Capita Consumption : Per capita consumption sugar in India and abroad during the years 1971 and 976 :

(Figures in kgs.)

ountry	1971	1976
dia	8·1	6·6
ri Lanka	3·4	5·3
apan	29·4	27·9
donesia	7·3	9·9
alaysia	36·3	30·9
akistan	4·8	8·3
ia	8·7	8·6
urope	39·2	41·5
. America	50·0	45·2
. America	38·4	42·0
. America	36·8	40·6
frica	12·4	12·8
orld Average	20·3	20·4

EXPORTS : In 1973 : 248,000 tonnes valued at Rs. 422 million ; in 1974 : 500,000 tonnes valued at Rs. 2,144 million ; in 1975 : 1·3 million tonnes valued at Rs. 4,750 million ; in 1976 : 843,000 tonnes valued at Rs. 2,686 million.

GENERAL: On 25th May, 1971 Government decontrolled sugar. However, a partial control was reimposed with effect from 1st July, 1972, the proportion between levy and free being 60 : 40. However for the season 1972-73 Government reduced the share of free sugar to 30 leaving the balance 70 per cent for levy. The same position was maintained for the season 1973-74 but for 1974-75 the proportion between levy and free was changed to 65 : 35 respectively. The Government allowed 5 per cent free sugar to sugar industry to cover various cost increases with effect form January, 1975. The same proportions have been extended to 1976-77 and 1977-78 seasons. On 16th August, 1978, sugar was once again decontrolled by the Government of India.

Beet-sugar : Beet-sugar has been produced for the first time in India by the State owned Sri Ganganagar Sugar Mills in Rajasthan. During 1975–76 the plant diffused 242,000 quintals of beet and produced 25,687 quintals of sugar. The recovery percentage rose to 11·70 against the earlier average recovery of 10·1 per cent. The yield per hectare also improved from 9 tonnes to 20 tonnes.

Training : The Sugar Industry gives practical training facilities to students of sugar technology and also trains a number of apprentices, as required under the Apprentices Act.

National Sugar Institute at Grand Trunk Rd., Kanpur 208001, Uttar Pradesh conducts courses in sugar technology, besides many other agricultural universities which have this as a subsidiary subject.

Research is conducted at the **Indian Institutes of Sugarcane Research** at Coimbatore, Tamil Nadu Lucknow and Uttar Pradesh.

Ten Largest Units

Name	Address	Capacity (in tonnes)
The K. C. P. Sugar Factory Ltd.	Vuyyuru, Andhra Pradesh	6,000
Shetkari Sahakari Sakhar Karkhana Ltd.	Sangli, Maharashtra	5,000
Krishna Sahakari Sakhar Karkhana Ltd., Rethare, Budruk	Shivnagar, Satara	5,000
Shree Panchaganga Sahakari Sakhar Karkhana Ltd.	Ichalkaranji, Maharashtra	5,000
Shri Khedut Sahakari Khand Udyog Mandali Ltd., Sardar Baug, Bardoli 394 602	Surat, Gujarat	5,000
The Mysore Sugar Co. Ltd.	Mandya, Karnataka	4,500
Saraswati Sugar Mills	Yamunanagar, Haryana	4,000
Sakthi Sugar Ltd.	Sakthinagar, Erode, Madras	4,000
Mawana Sugar Works	Mawana, Meerut, Uttar Pradesh	3,810
The Upper Doab Sugar Mills Ltd.	Shamli, Muzaffarnagar, Uttar Pradesh	3,810

Deccan Sugar Institute near Naigaon in Maharashtra is being set up at a cost of Rs. 100 million to provide technical expertise to the sugar industry.

National Federation of Co-operative Sugar Factories Ltd., "Saraswati House", 27, Nehru Place, New Delhi 110024 was set up in December 1960, with the object of co-ordinating and facilitating the working of co-operative sugar factories, State and zonal federations and to assist in the promotion of new co-operative sugar factories.

So far, licences/letters of intent have been issued for establishment of 181 co-operative sugar factories. Of these 116 sugar factories are in operation. Others are in various stages of establishment. In the year 1976-77, the co-operative sugar factories produced 2·31 million [illegible] sugar which was about 48 per cent of the total [illegible] in the country in that year.

Publications : 'Shakara', a quarterly bulletin [illegible] out by the National Sugar Institute.

The **Indian Sugar Mills Association,** Sugar H[illegible] 39 Nehru Place, New Delhi 110 049, brings out the f[illegible] ing publications : (1) 'Indian Sugar' Monthly Mag[illegible] (2) 'Indian Sugar Yearbook' Annual Publication ; (3) [illegible] of Sugar Mills in India and Pakistan' Annual Publica[illegible]

The National Federation of Co-operative Sugar Factor[illegible] Ltd., also brings out the following publications : (1) [illegible] operative Sugar'. (2) 'Co-operative Directory [illegible]

TEA INDUSTRY

BRIEF HISTORY

CHINA is believed to be the original home of the tea plant where it was first introduced as a medicine.

In 1823 the tea plant was discovered growing wild in Assam. It was then that China lost its monopoly of tea trade. The East India Company sent the first shipment of eight chests of Assam tea which were sold in London in May, 1834.

LOCATION OF THE INDUSTRY

The two main tea-growing regions in India are North-East India and South India the break up of which is given in Table I.

There were 568 tea companies during 1973-74.

No. of Persons Employed: The estimated daily average labour employed during 1974 was as follows: North India: 609,401 ; South India : 152,316 ; All India : 771,717.

PRODUCTION

Total tea production in India in 1977 saw an average increase of 9·38 per cent over the 1976 level at 559·81 m. kgs. Production in 1976 stood at 511·82 m. kgs.

Of the increase of 47·99 m. kgs., North India accounted for as much as 28·97 m. kgs. and South India just 19·02 m. kgs.

Table I

States	Area in hectares as on 31st March		No. of tea gardens as on 31st March	
	1975	1976*	1975	1976*
Assam	188,794	189,338	756	753
West Bengal ..	88,784	88,799	297	297
Bihar	459	459	3	3
Tripura ..	5,467	5,527	54	56
Uttar Pradesh	1,816	1,799	31	31
Himachal Pradesh ..	4,183	4,183	1,385	1,385
Total North India ..	289,503	290,105	2,526	2,525
Tamil Nadu ..	35,611	36,079	6,520	6,521
Kerala	36,412	36,327	4,203	4,105
Karnataka ..	1,777	1,764	15	15
Total South India ..	73,800	74,170	10,738	10,641
Total All India :	363,303	364,275	13,264	13,166

North India produced 429·61 m. kgs. in 1977 [illegible] 400·64 m. kgs. in 1976. South India had an out[illegible] 130·20 m. kgs. in 1977 against 111·18 m. [illegible] 1976.

India's tea production is the largest in the world [illegible] Table II gives the State-wise break-up of th[illegible] production.

Table II

(In '000 k[illegible]

State	1975	1976	1977
Assam	263,055	276,308	291,411
West Bengal ..	111,860	117,723	131,[illegible]
Bihar	18	29	[illegible]
Tripura	3,674	4,292	
Uttar Pradesh ..	580	854	
Himachal Pradesh ..	1,391	1,433	
Total North India ..	380,578	400,639	[illegible]
Tamil Nadu	60,452	59,825	[illegible]
Kerala	43,215	47,913	[illegible]
Karnataka	2,892	3,440	[illegible]
Total South India ..	106,559	111,178	[illegible]
Total All India:	487,137	511,817	[illegible]

* Provisional.

There are 29 countries in the world which produce tea. **Production** of tea in selected principal producing countries is given in the table below :

(In '000 kgs.

	1975	1976*
India	487,137	511,817
China	194,000	[illegible]
Sri Lanka	213,679	[illegible]
Japan	*105,448	[illegible]
U.S.S.R.	86,300	[illegible]
Kenya	56,730	[illegible]
Indonesia	70,000	[illegible]
Turkey	45,000	[illegible]
Argentina	39,000	[illegible]
Taiwan	26,092	[illegible]
Bangladesh	29,000	[illegible]
Uganda	18,374	[illegible]
Malawi	26,256	[illegible]
Mozambique ..	[illegible]	[illegible]

* Provisional.

The total world production of tea : 1969 : 1,276 m. kgs. ; 1970 : 1,209 m. kgs. ; 1971 : 1,328 m. kgs. ; 1972: 1,415 m. kgs. ; 1973 : 1,444 m. kgs. ; 1974 : 1,458 m. kgs. ; 1975 : 1,500 m. kgs. ; 1976 : 1,526 m. kgs.

CONSUMPTION

The estimated consumption of tea in India : 1970–71: 213·0 m. kgs. ; 1971-72 : 224·7 m. kgs. ; 1972–73 : 236·9 m. kgs. : 1973-74 : 248·0 m. kgs. ; 1974-75 : 260·0 m. kgs. ; 1975-76 : 272·0 m. kgs.

Per Capita Consumption of Tea in Selected Countries :

Countries	1972-74		1973-75	
	Total in '000 tonnes	Per head in kgs.	Total in '000 tonnes	Per head in kgs.
United Kingdom	200·11	3·57	196·22	3·50
France	4·63	0·09	4·96	0·09
West Germany	9·57	0·15	9·59	0·15
Ireland	11·53	3·81	11·80	3·82
U.S.S.R. ..	107·63	0·43	117·26	0·47
Canada	21·21	0·96	21·08	0·94
U.S.A.	75·96	0·36	77·00	0·36
Iraq	23·07	2·22	22·03	2·05
Jordan	2·52	1·00	2·63	1·00
Morocco ..	12·88	0·79	13·28	0·79
Tunisia	6·30	1·16	6·69	1·19
Australia ..	26·67	2·03	26·69	2·00
New Zealand ..	7·75	2·62	7·50	2·48
India	N.A.	N.A.	N.A.	N.A.
Sri Lanka ..	20·13	1·52	20·52	1·50
Japan	113·64	1·05	116·36	1·06

Note: N.A. Not Available.

EXPORTS

Tea is the seventh largest foreign exchange earner of the country. India exports tea to over eighty different countries of the world of which United Kingdom buys almost one-third of the total exports. U.S.S.R., U.A.R. and Afghanistan are some of the other big buyers of Indian tea.

Quantity and Value of Tea Exported to Selected Countries

Selected countries	1975		1976	
	Q	V	Q	V
United Kingdom	59,639	501·74	72,590	704·36
U.S.S.R. ..	56,469	724·07	51,421	636·05
Netherlands ..	9,807	94·79	4,369	49·84
Afghanistan ..	12,941	155·60	11,863	163·22
Sudan	5,892	64·71	7,040	68·02
U.S.A.	5,887	70·09	8,757	120·72
Poland ..	12,096	143·50	6,962	86·25
Iran	6,876	114·45	6,758	117·66
Ireland	4,654	51·23	4,252	47·99
Total for all countries ..	233·611	2,731·36	218,128	2,731·36

Q — Quantity in '000 kgs. V — Value in Rs. million.
Source : Tea Board Statistics.

Export of tea during 1977-78 was to the order of 225 million kgs. valued at Rs. 5,560 million against 242 million kgs. valued at Rs. 2,952·6 million in 1976-77.

Export Promotion : Name and Address of Tea Councils entrusted with the promotion of Indian tea.

1. *The Council of U.S.A. Inc.*, 230, Park Avenue, New York City, U.S.A. **2.** *Comite Francais Du The*, 4 Avenue de la Bourdonnais, Paris, 7, France. **3.** *The Gessellschaft fur Teewerbung, M.B.H.* Hamburg 1, Steindamm 9, Federal Republic of Germany. **4.** *The Tea Council Ltd., U.K.*, Sir John Lyon House (Middle Block), 5, High Timber St., Upper Thames St., London EC4V 3NJ., U.K. **5.** *Tea Council of Australia*, 333, George St., Sydney, Australia. **6.** *Tea Council at New Zealand*, U.E.B. Bldgs., 8-14, Eden Crescent, Auckland, New Zealand. **7.** *Tea Council at Canada*, 42, Charles St., East, Toronto 5, Ontario, Canada. **8.** *Tea Council at Ireland Ltd.*, 85, Harcourt St., Dublin. 2. Ireland.

GENERAL

Production Target : A production target of 800 million kgs. has been set for 1985.

Average Yield Per Hectare

The average yield per hectare for various tea producing States is given below :

(In kgs.)

States	1975	1976
Assam	1,393	1,459
West Bengal	1,260	1,326
Bihar	39	63
Tripura	673	777
Uttar Pradesh	319	475
H.P. (Kangra & Mandi)	333	345
North India	1,315	1,381
Tamil Nadu	1,698	1,658
Karnataka	1,627	1,950
Kerala	1,187	1,319
South India	1,444	1,499
All India	1,341	1,405

Auction Centres : Indian tea is sold through auction centres at Calcutta and Cochin, which are also the major ports for export of tea, where nearly 170 m. kgs. and 65 m. kgs. of tea respectively is sold annually. Tea is also auctioned at Gauhati, Amritsar and Coonoor. In North India an auction centre at Siliguri has been newly opened in the month of October, 1976.

About 40 m. kgs. of Indian tea is sold through the London auction centre, major portion of which is meant for consumption in the U. K.

The Central Government earns about Rs. 320 million annually on tea through the customs and central excise.

Instant Tea : The production of instant tea in India is from green leaf rather than from manufactured black tea, as is the practice in the U.S.A. It is manufactured in India by Tata Finlay Ltd. and Food Specialities Ltd. exclusively for export.

Production of Instant Tea in Kgs. : 1970 : 316,594 ; 1971 : 254,307 ; 1972 : 237,932 ; 1973 : 214,508 ; 1974 : 350,957 ; 1975 : 276,912.

Export of Instant Tea during 1972 to 1976

	Quantity (in kgs.)	Value (in Rs.)
1972	230,796	7,123,929
1973	242,622	7,605,113
1974	305,291	9,761,699
1975	351,806	13,620,912
1976	593,321	25,427,644

Research : The Toklai Experimental station in Assam is considered to be one of the largest research establishments in the world dedicated entirely to tea. **The United Planters' Association of Southern India** (address : Coonoor, Tamil Nadu) has its own tea experimental station in Nilgiri Hills. Facilities for tea research in south India are at the Central Laboratory and Field Station in the Anamallis and a sub-station in Kerala. The scientific problems of the tea industry in the Kangra Valley are looked into by a Tea Experimental Farm located at Palampur. All these tea research establishments in India receive substantial financial assistance from the Government through the **Tea Board of India** (address : 14, Brabourne Rd., Calcutta-700001) which also maintains a close liaison with these institutions. The Tea Board also sponsors and finances independent research projects at different universities and technical institutions to supplement the work of the various [illegible] research establishments in the country.

Tea Corporation : Assam state-owned corporation was formed in 1971 and a similar corporation was proposed to be set up in West Bengal in 1976 to take over and [illegible] sick and uneconomic tea gardens.

Some Top-most Tea Producing Estates

1. **Beescopie T.E.:** P.O. Doom Dooma, Dt. Lakhimpur, Assam ; 2. **Samdang T.E. :** P.O. Doom Dooma, Dt. Lakhimpur, Assam ; 3. **Hattigor T.E. :** P.O. Hattigarh, Dt. Darrang, Assam ; 4. **Manabarrie T.E. :** P.O. B[illegible]gang, Dt. Lakhimpur, Assam ; 5. **Khobong T.E. :** P.O. Talap, Dt. Lakhimpur, Assam ; 6. **Satali T.E. :** P.O. Hasimara, Dt. Jalpaiguri, West Bengal ; 7. **Arrapetta T.E. :** P.O. Meppadi, Dt. Malapuram, Kerala ; 8. **Slaonah T.E. :** P.O. Salama, Dt. Nowgong, Assam ; 9. **Dewan T.E.:** P.O. Dewan, Dt. Cachar, Assam ; 10. **Khowang T.E.:** P.O. Khowang, Dt. Lakhimpur, Assam.

TOBACCO INDUSTRY

BRIEF HISTORY

ALTHOUGH the official history of the development of tobacco on commercial scale in this country dates back to the advent of the Portuguese in the early 17th century, large number of references to tobacco in Puranic tales and the Ayurveda show that tobacco was known to India from times immemorial.

The black porous soil in certain parts of east India, throughout the Coromandel coast, particularly Guntur, East and West Godavari and Prakasam districts of Andhra are considered to be favourable to the growth of quality grades of tobacco.

The present total number of **cigarette** factories in the private sector is 17, of which 6 are in Maharashtra, 3 in Andhra Pradesh, 2 each in West Bengal and Uttar Pradesh and 1 each in Karnataka, Bihar, Madhya Pradesh and Gujarat. Recently letters of intent have been issued to set up 9 new cigarette factories. The **cigar** industry is concentrated in Tamil Nadu, whilst the production of **bidis** is a cottage industry on a country-wide basis.

The first joint sector cigarette factory at Bari Brahman, 18 kms. south of Jammu has been put up by the state-owned Jammu & Kashmir Industrial Development Corporation and the Golden Tobacco Co. Ltd. The factory has attained a production level of 1·5 million cigarettes per day.

There are about 19 ***zerda*** (chewing tobacco) manufacturing factories and 3 **snuff** factories in the country situated mostly in Tamil Nadu and Uttar Pradesh.

Public Sector : The State Industrial Development Corporations of Assam, Haryana, Jammu and Kashmir, Kerala and Tamil Nadu have each been issued a letter of intent to set up a cigarette manufacturing unit. Each unit will have a capacity of 4,500 million cigarettes annually, except the unit in Assam which will have a capacity to produce 3,000 million pieces per year. An application from the Madhya Pradesh Industrial Development Corporation is reported to be under consideration.

LOCATION OF THE INDUSTRY: The table below gives the area and production of tobacco in India in 1975-76 and 1976-77.

Area in : Thousand hectares.
Production : Million kgs.

States Union Territories	1975-76		1976-77	
	Area	Production	Area	Production
Andhra Pradesh ..	156·2	129·6	187·9	133·5
Assam	6·6	4·9	6·7	4·9
Bihar	11·0	11·7	16·0	13·0
Gujarat	78·6	116·6	99·2	164·6
Haryana	0·6	0·2	0·5	0·4
Himachal Pradesh..	0·6	0·2	0·4	0·2
Jammu & Kashmir	0·2	0·1	0·2	0·1
Karnataka	35·5	19·2	38·0	20·0
Kerala	0·8	1·5	0·7	1·5
Madhya Pradesh ..	2·7	1·5	2·8	1·4
Maharashtra ..	11·2	5·2	11·7	6·7
Meghalaya	0·4	0·3	0·4	0·3
Orissa	16·7	1·0	15·0	9·7
Punjab	5·9	3·9	9·4	5·4
Rajasthan	13·4	18·9	14·1	19·8
Tamil Nadu ..	1·0	0·3	1·0	0·3
Uttar Pradesh ..	11·7	9·4	12·0	10·2
West Bengal ..	11·7	10·5	14·9	12·6
Delhi	Neg.	0·1	Neg.	0·1
Mizoram	0·8	0·4	1·4	0·4
Total All India ..	368·2	349·8	431·6	[illegible]

Neg. Negligible

Source : Directorate of Economics and Statistics, Ministry of Agriculture & Irrigation, Government of India, New Delhi.

No. of Persons Employed : It is estimated that about 700,000 growers and 500,000 curers are engaged in tobacco cultivation. In the manufacturing sector, the [illegible] number of persons employed is estimated at 3 million of which, 2 million are in the bidi industry. About 14,000 are employed in the cigarette industry.

Ranking in the World Market: India is the third most important tobacco producing country next only to Mainland China and U.S.A. and accounts for about 6·4 per cent of the total world tobacco production.

Following is the estimated area in thousand hectares and production in million kgs. respectively, of tobacco producing countries of the world for the year 1976.

Argentina 88·0, 93·3 ; Brazil 241·0, 253·0 ; Bulgaria 120·0, 145·0 ; Burma 64·3, 74·8 ; Canada 38·3, 39·6 ; China, People's Republic of 780·0, 980·0 ; France 21·7, 56·6 ; Greece 120·6, 126·6 ; India 369·2, 347·1 ; Indonesia 172·0, 80·0 ; Italy 59·7, 108·6 ; Japan 63·3, 165·2 ; Korea, Republic of 54·7, 108·4 ; Mexico 39·4, 64·3 ; Pakistan 40·8, 71·0 ; Philippines 111·4, 89·2 ; Poland 59·4, 100·2 ; Rhodesia 44·3, 85·1 ; Thailand 146·7, 72·9 ; Turkey 400·0, 260·2 ; U.S.A. 417·5, 944·8 ; U.S.S.R. 183·0, 290·0 ; Yugoslavia 66·0, 81·0 ; Estimated World Total* 4453·6, 5404·4.

* Total includes data for countries not listed.

PRODUCTION

India produces several types of tobacco which fall under two botanical species, namely Nicotiana Tabacum and Nicotiana Rustica.

State-wise Production: In million kgs.

States	1974-75	1975-76	1976-77
Andhra Pradesh ..	181·7	129·6	133·5
Bihar	7·4	11·7	13·0
Gujarat	127·4	116·6	164·6
Karnataka	19·7	22·9	26·6
Maharashtra	6·3	5·2	6·7
Orissa	11·8	11·0	9·7
Tamil Nadu	10·6	3·9	5·4
Uttar Pradesh ..	8·4	9·4	10·2
West Bengal	8·8	10·5	15·0
Total All India (including other States) ..	394·8	349·8	414·2

Source: Directorate of Economics & Statistics, Min. of Agriculture

Virginia Tobacco: The all India production of Virginia tobacco in 1976-77 was 94·1 million kgs. from an area of 142·7 thousand hectares.

Production Statistics of *Bidis*: It is estimated that about 300 million pieces of *bidis* are manufactured annually.

Production of Cigarettes: During 1976, the output of cigarettes was 67,200 million pieces. (Licensed capacity 102·6 billion pieces per annum).

Ranking in the World Market: In 1976 India stood twelfth, with 67 billion cigarette pieces. It produced 1·1 per cent of the total world output as against China's 19·6 per cent (703 billion pieces) and U.S.A.'s 17·0 per cent cigarettes (693 million pieces) per annum.

EXPORTS

India is the third biggest exporter of tobacco in the world next only to U.S.A. and Turkey. Indian FCV tobacco is exported to over 30 countries. Of these U.K., U.S.S.R. and Bangla Desh are the biggest buyers.

(In million kgs.)

	1974-75	1975-76	1976-77
U.K.	29·9	18·4	30·5
U.S.S.R.	13·6	19·5	15·9
Bangla Desh	0·8	6·5	2·8
Japan	4·8	5·3	4·8
Total (including other countries)	68·0	64·5	67·1
Foreign Exchange earned in Rs. million ..	767	862	875

The total exports of unmanufactured tobacco including FCV during 1971–72 to 1976–77 (Quantity in thousand kgs. and value in million rupees respectively) was : 1971-72 : 57,288·5, 422·4 ; 1972-73 : 94,483·8, 610·7 ; 1973-74 : 78,215·1, 684·1 ; 1974-75 : 74,981·9, 803·5 ; 1975-76 : 74,276·3, 930·9 ; 1976-77 : 80,133·8, 966·1.

The total exports of manufactured tobacco including cigarettes and *bidis* during 1971-72 to 1976-77 (Quantity in thousand kgs. and value in million rupees respectively) was : 1971-72 : 3,608·4, 28·3 ; 1972-73 : 3,613·0, 27·9 : 1973-74 : 2,028·3, 25·0 ; 1974-75 : 2,972·9, 18·6 ; 1975-76 : 4,181·2, 52·7 ; 1976-77 : 4,169·6, 54·8.

Exports of Cigarettes during 1971–72 to 1976–77 (Quantity in thousand kgs. and value in million rupees respectively) was : 1971-72 : 1,178·9, 15·70 ; 1972-73 : 1,073·8, 16·75 ; 1973-74 : 839·7, 14·11 ; 1974-75 : 120·1, 3·03 ; 1975-76 : 1,386·6, 33·98 ; 1976-77 : 999·8, 22·72.

Exports of *Bidis* during 1971-72 to 1976-77 (Quantity in thousand kgs. and value in million rupees respectively) was : 1971-72 : 83·7, 1·59 ; 1972-73 : 64·8, 1·40 ; 1973-74 : 71·6, 1·48 ; 1974-75 : 87·7, 2·00 ; 1975-76 : 121·3, 3·00 ; 1976-77 : 296·8, 6·686.

Export Duty: With the devaluation of rupee in June, 1966, an export duty of 75 paise per kg. or 20 per cent *ad valorem*, whichever is lower was, levied on unmanufactured tobacco.

Export Promotion Agency: Tobacco Board, Old Club Rd., Kothapeta, Guntur 522001, Andhra Pradesh.

Statutory grades for all the varieties of unmanufactured tobacco entering the export trade have been prescribed by the Government for strict quality control.

CONSUMPTION

Raw Tobacco for Home Consumption

('000 kgs.)

Variety	1975-76	1976-77
Flue Cured Virginia	42,787	45,474
Other than F.C.V. used for the manufacture of cigarettes and smoking mixture for pipes and cigarettes ..	30,117	29,908
Other than Flue Cured and intended to be manufactured into :		
Bidi	104,958	129,526
Cigar, Cheroot, Snuff, Hookah, Chewing	76,254	84,433
Agricultural purposes and Destruction	35,454	33,127
Stalks	15,217	19,043
Miscellaneous and Sp. Industrial purposes	376	461
Total	305,163	343,972

Source: Statistics and Intelligence Branch, Central Excise, New Delhi.

Nearly 80 per cent of the tobacco produced is locally consumed and the rest is exported.

Consumption of Cigarettes : The per capita consumption rate per month in India is about 10, as against 217 in US, 176 in UK, 170 in Japan, 168 in Singapore, 70 in Malaysia, 24 in Pakistan, 20 in Sri Lanka and 13 in Nepal. Consumption of Cigarettes in India was expected to reach 100 billion pieces by 1978-79.

Cigarettes cleared for home consumption during 1976-77 were 65,372 million pieces against 59,839 million in 1975-76.

Tobacco in Each Cigarette : A regular ordinary cigarette of 7 mm length contains 1·05 gm. to 1·12 gm. of tobacco.

IMPORTS

The quantity and value of tobacco (manufactured, unmanufactured and cigarettes) imported into India during the past three years are given in the table below:

Year	Quantity (in kgs.)	Value (Rupees)
1973-74	110,488	334,616
1974-75	128,228	3,625,481
1975-76	167,450	1,521,053

The imports of Flue-Cured Virginia tobacco were mainly from the U.S.A.

GENERAL

The nicotine content in Flue-Cured Virginia tobacco grown in India ranges between 0·6 per cent to 3 per cent. Nicotine content is lower in Virginia tobacco grown in light soil areas and high in tobacco grown in heavy black soil.

Tobacco is an excisable commodity and its movements, processing and manufacture from the stage of harvesting till it is consumed or exported are controlled by the Central Board of Excise and Customs of the Ministry of Finance.

The excise collection during 1975-76 amounted to over Rs. 3,000 million.

Research : Research programmes on tobacco are implemented by the Indian Council of Agricultural Research. The Council has initiated an All India Coordinated Research Project on tobacco with its headquarters at Anand (Gujarat) with a view to conducting research for all round improvement of Indian tobacco.

The Central Tobacco Research Institute at Rajahmundry in Andhra Pradesh is mainly devoted to the investigation of fundamental problems connected with various aspects of tobacco. It also co-ordinates the work of other tobacco experimental farms and research stations (listed below), spread all over the country, which are carrying out research on different types of tobacco grown in the concerned regions.

1. Tobacco Research Station, Guntur, Andhra Pradesh.
2. Tobacco Research Station, Hunsur, Karnataka.
3. Tobacco Research Station, Vedasandur, Tamil Nadu.
4. Tobacco Research Station, Pusa, Bihar.
5. Tobacco Research Station, Dinhata, West Bengal.
6. Bidi Tobacco Research Scheme, Anand, Gujarat.
7. Bidi Tobacco Research Station, Nipani, Karnataka.

India Tobacco Co. Ltd., and their sister concern Indian Leaf Tobacco Development Co. Ltd. are conducting research on various aspects of tobacco at their research centre in Rajahmundry, Andhra Pradesh. Recently the company has established an integrated research centre at Bangalore.

The Indian Tobacco Development Council of the Government, formulates the tobacco development programmes, reviews the progress and considers the problems of marketing, trade and price policy.

The Tambaku Vikas Nideshalaya (Directorate of Tobacco Development) in the Ministry of Agriculture, with its headquarters at 3-A, Eldams Rd., Teynampet, Madras 600018, implements the development schemes, channels Government finances and renders technical advise and guidance.

Besides the development schemes, Tobacco Extension Units are also operating in the tobacco growing areas under the control of Agricultural Departments of the State Governments for educating and training the farmers in the improved methods of harvesting, handling and curing of tobacco.

The average **Per Hectare Yield** of tobacco in India during the last few years is given in the table below :—

Year	All tobacco	Virginia tobacco
1969-70	770	590
1970-71	810	605
1971-72	914	804
1972-73	838	706
1973-74	989	—

Publications : 'Indian Tobacco Journal' (English), 'Bharatiya Tambaku' (Hindi) and 'Bharatiya Pogaku' (Telugu) — all quarterlies published by Directorate of Tobacco Development, Madras.

WOOLLEN INDUSTRY

BRIEF HISTORY

ALTHOUGH the first unit was set up more than a century ago, there was no significant expansion till the beginning of the fifties. From hardly 16 units in the organised sector in 1950, there are now 150 mills with an installed capacity of 330,000 spindles.

Public Sector : Of 1the50 units only 3 are in the public sector. The names and addresses are as follows :

1. Rajasthan Government Worsted Spinning Mills, Churu, Rajasthan ;
2. Kashmir Government Woollen Mills, Shi[illegible], Srinagar, Jammu & Kashmir ;
3. Government Spinning Mills, Nowshera, Srinagar, Jammu & Kashmir.

No. of Persons Employed : 125,000.

Capital Investment : Approximately Rs. 1,500 million.

LOCATION OF THE INDUSTRY

State-wise Distribution of Installed Capacity in 1977
Organised Mills

State	Number of Mills			Installed Capacity					
				Spindles					
	Spinning	Composite	Total	Worsted	Shoddy	Woollen	Others	Total	Powerlooms
1. Gujarat	—	2	2	9,140	—	5,230	—	14,370	167
2. Jammu & Kashmir ..	7	1	8	11,518	—	2,018	—	13,536	118
3. Madhya Pradesh ..	1	—	1	—	—	876	—	876	—
4. Maharashtra	10	9	19	53,232	11,952	4,788	—	69,972	562
5. Karnataka	1	1	2	—	—	100	11,124	11,224	182
6. Haryana	15	1	16	5,104	940	8,911	—	14,955	18
7. Punjab	43	21	64	107,722	6,748	34,207	60	148,737	782
8. Rajasthan	20	—	20	—	672	18,895	—	19,567	—
9. Uttar Pradesh ..	7	1	8	9,672	2,848	11,895	—	24,415	250
10. West Bengal	1	3	4	6,512	240	1,380	—	8,132	93
11. Delhi	4	—	4	1,200	—	648	—	1,848	—
12. Himachal Pradesh ..	1	—	1	—	1,600	—	—	1,600	—
13. Bihar	1	—	1	—	—	768	—	768	—
	111	39	150	204,100	25,000	89,716	11,184	330,000	2,172

PRODUCTION

India's 42 million sheep produce about 34 million kgs. of raw wool each year. Fifty per cent of this is below 40s count. Some of it is exported and the rest used for making coarse garments and carpets.

Country	Approx. Sheep Population (in millions) 1975-76	Approx. Output of Raw Wool (in million kgs.) 1976-77
Argentina	37·5	190·0
Australia	148·6	717·0
France	10·7	22·0
Italy	8·2	12·0
New Zealand	56·4	313·0
U.K.	28·2	48·0
U.S.A.	13·4	53·0
U.S.S.R.	141·4	431·0
Total (including other countries)	932·5	2,531·0

Source: Wool Statistics of Commonwealth Economic Committee.

EXPORTS

(Rs. million)

S. No.	Commodity	1975-76	1976-77
1.	Raw Wool	35·89	35·01
2.	Shoddy Wool & Waste ..	0·16	—
3.	Woollen/Worsted Yarn ..	0·41	—
4.	Woollen/Worsted and Mixed Fabrics	16·37	16·14
5.	Woollen Hosiery	235·68	178·62
6.	Woollen Readymade Garments	50·34	47·90
7.	Woollen Blankets.. ..	34·70	31·76
8.	Shawls and *Lohis* ..	8·88	16·71
9.	Carpets, Druggets and *Numdahs*	398·87	645·05
	TOTAL	781·30	971·19

It was estimated that the exports of wool and woollens during 1977–78 would be around Rs. 1,200 million.

Wool and Woollen Export Promotion Council: Address: Churchgate Chambers, 5, New Marine Lines, Bombay 400020.

IMPORTS

The trend in imports of raw wool during 1972-73 to 1976-77 was as follows (Quantity in million kgs. and value in million Rs. respectively): 1972-73: 10·07, 89·13; 1973-74: 7·51, 161·43; 1974-75: 9·7, 182·0; 1975-76: 13·0, 250·0; 1976-77: 11·5, 260·0.

GENERAL

Pashmina: Of the total 91,073 goats in Ladakh 70,000 are *Pashmina* bearing. A joint effort of the State and Central Governments is afoot to increase the size and production of *Pashmina* goats by cross breeding them with the Goran Altaskyia breed from U.S.S.R. and Angora bucks from Turkey.

With these measures the yield per goat is expected to increase from about 400 gms. at present to 1 kg. The maximum yield of *Pasham* wool recorded so far is 700gms. the minimum being 200 gms. This means that the production of *Pasham* wool in Ladakh will increase from about 28,000 kgs. at present to 70,000 kgs. in due course.

Gujarat Sheep and Wool Development Corporation at Anand Bldg., Mirzapur Rd., Ahmedabad 380001, helps to produce quality wool by a cross-breeding programme. This has substantially reduced imports of quality wool.

Karnataka State Sheep & Wool Development Board, 12, Rashtriya Vidyalaya Rd., Bangalore 560004.

International Wool Secretariat at Dugal Estate, 193, Backbay Recl., Bombay 400001, is a non-profit organisation with headquarters in London. It helps the Indian Woollen Industry in all its problems such as economic, research, planning etc.

Research: Central Sheep and Wool Research Institute at Malpura (88 kms. from Jaipur) in Rajasthan, is run by the Indian Council for Agricultural Research with some technical and financial help from FAO. Situated on a 1,618 hectares farm, its main programme is research and training facilities in sheep husbandry, better utilisation of land, wool shearing, grading, testing, technology and processing. It also trains key personnel, instructors, supervisors, managers and research workers.

Two sub-stations, one at Kulu (H.P.) and the other at Kodaikanal (T.N.) are run by the Institute.

Wool Research Association at SASMIRA, A. Besant Rd., Bombay 400025, deals with research on wool yarn and fibre and its application to different commodities, improvement of the quality of fabrics etc.

Association : Indian Woollen Mills' Federation, Churchgate Chambers, 5, New Marine Lines, Bombay 400020.

Some Large Units : With their addresses and the number of powerlooms in brackets.

1. Bombay Fine Worsted Manufacturers, Castle Mills, Agra Rd., Thane 400601, Maharashtra (170).
2. The Raymond Woollen Mills Ltd., J. K. Bldg., Morarjee Marg, Ballard Est., Bombay 400038, Maharashtra (196).
3. Binny Ltd. (Bangalore Woollen, Cotton & Silk Mills Co. Ltd.), Agraharam Rd., Bangalore 560023, Karnataka (182).
4. New Egerton Woollen Mills Ltd. (British India Corpn. Ltd.), Dhariwal, Punjab (230).
5. Cawnpore Woollen Mills Ltd., Civil Lines, Kanpur 208001, Uttar Pradesh (250).
6. Shree Digvijaya Woollen Mills Ltd., Aerodrome Rd., Jamnagar 361003, Gujarat (8102).

Raw Material : The average yield of sheep in India works out at about 0·90 kg. as against over 4 kgs. in Australia.

Publications : 'Wool and Woollens of India', Churchgate Chambers, 5, New Marine Lines, Bombay 400020 (Quarterly).

DROUGHT

BACKGROUND

CONSTANT famine conditions in India compelled the British Government to appoint a commission in 1878 to draft the Famine Code which was formalised in 1883.

On an average the country receives 60·64 million cubic cms. of rain. But there is a variation in the seasonal and the annual distribution of rainfall. Some parts of Rajasthan get as low as 12·70 cms. of rain while hills of Assam get as much as 1,270 cm. About 12 per cent of the country's area receives less than 61 cms. of rain on an average and only 8 per cent more than 254 cms.

Drought: Though the definition of drought varies widely, drought in India refers to a situation when the rainfall for a week is half of the normal or less when the normal rainfall is 5 mm or more for the week. Agricultural drought is a period of 4 such consecutive weeks in the period from middle of May to middle of October or 6 such consecutive weeks during the rest of the year. Droughts have been occurring periodically largely due to the variability of south west monsoon from which 80 per cent of the annual rainfall is received during the period from June to September in most parts of the country. Not only a low rainfall but untimely distribution of fairly high rainfall can also lead to droughts. Approximate probability of deficient rainfall (deficiency equal to 25 per cent or more of the normal) is once in 4 to 5 years over large areas of the country.

In India, as many as 128 districts accounting for about 68 million hectares have low to medium rainfall under 1,125 mm. annually, and these also have very limited irrigation facilities. Of these districts, 25 are characterised by very poor rainfall in the range of 375-750 mm. annually with an irrigated area of 5–10 per cent of the cropped area. Another 91 of these districts receive annual rainfall ranging from 750 to 1,125 mm. The total net sown area in these districts is 42 million hectares of which about 5 million hectares are irrigated. Agriculture in these dry farming areas is faced with the twin problems of low productivity and high instability. Since, by and large, drought regions have low water resources, they may have to depend on rainfed agriculture with its attendant risk of instability in years of bad monsoon.

The chronically affected drought areas account for 19 per cent of the total geographical area of the country and 12 per cent of its population. With the exception of Kerala in the South, Punjab in the North and the States of North-Eastern region, every State in India has one or more drought-prone districts. Nearly 56 per cent of the geographical area of Rajasthan falls within the category of drought-prone areas; in terms of population the coverage is 33 per cent. Next to Rajasthan comes Andhra Pradesh, where about 50 per cent of the geographical area and 22 per cent of the population is within the ambit of the drought-prone areas. In Gujarat, about 29 per cent of the geographical area and about 18 per cent of the population are within the purview of the areas characterised as drought prone. In Karnataka, the corresponding figures are 25 per cent and 22 per cent. These areas are the major factor contributing to regional imbalances in the country. Every third year, about 3 million inhabitants of arid zones take to migration with their livestock. These areas also remain a continuous source of strain on the financial resources of the country. The Irrigation Commission Report (1972) indicated the drought and chronic drought areas as follows

(1) *Drought areas* (20 per cent probability of rainfall deficiency of more than 25 per cent of normal) : Gujarat, Rajasthan and adjoining parts of Punjab, Haryana, West Uttar Pradesh and west Madhya Pradesh, Madhya Maharashtra, Interior Karnataka, Rayalaseema, South Telangana and parts of Tamil Nadu, a small portion of north-west Bihar and adjoining east Uttar Pradesh, and a small portion of north-east Bihar and adjoining portion of West Bengal.

(2) *Chronically Drought Affected areas* (40 per cent probability of rainfall deficiency of more than 25 per cent of normal) : West Rajasthan and Cutch.

Drought-Prone Areas Programme (DPAP) : Over the Plan period, several measures have been taken for the development of drought-prone areas. These include : (a) development of irrigation ; (b) formulation of schemes specifically designed to benefit the drought-prone/dry areas ; (c) agricultural research specifically oriented towards the problems of the low rainfall areas ; (d) scarcity relief which also helped in creating additional production potential and provision of services like drinking water supply ; and (e) special programmes like Emergency Agricultural Production Programme.

Drought-Prone Areas Programme (formerly known as the Rural Works Programme) which made a beginning in 1970-71 has been in operation in 54 districts primarily and contiguous areas of another 18 districts which have been identified as chronically drought prone. These districts have been identified on the following criteria :

(i) incidence and pattern of rainfall ; (ii) percentage of irrigated areas to the total area and (iii) the frequency of drought over a period of time.

The districts covered under this Programme are as follows:

Andhra Pradesh : Anantapur; Kurnool; Cuddappah; Chittor; Mehboobnagar.

Bihar : Monghyr; Palamau; One unit comprising Nawadah and Rohtas Dist.

Gujarat : Panchmahals; Kutch; Jamnagar; Rajkot; Amreli; Banaskantha; Surrendranagar.

Haryana : Mohindergarh; Bhiwani; Rohtak.

Jammu & Kashmir : Doda.

Karnataka : Bijapur; Chitradurga; Kolar; Dharwar; Belgaum.

Madhya Pradesh : Jhabua; Dhar; Sidhi; Betul.

Maharashtra : Ahmednagar; Solapur; Nasik; Pune; Satara; Sangli.

Orissa : Kalahandi; Boudh Phulbani.

Rajasthan : Jaisalmer; Barmer; Pali; Jalore; Bikaner; Churu; Jodhpur; Banswara; Nagaur; Dungarpur.

Tamil Nadu : Dharmapuri; Ramanathapuram.

Uttar Pradesh : Mirzapur; Banda; Allahabad; Varanasi; Hamirpur; Jalaun.

West Bangal : One unit each in Purulia; Midnapur; Bankura.

Contiguous areas selected under Drought Prone Areas Programme:

Andhra Pradesh : Ongole; Nalgonda.

Gujarat : Mehsana; Ahmedabad; Bhavnagar.

Haryana : Bhiwani; Hissar; Rohtak.

Jammu & Kashmir : Udhampur.

Karnataka : Gulbarga; Raichur; Bellary; Tumkur.

Madhya Pradesh : Khargaon; Shahdol.

Rajasthan : Udaipur (Kharwara); Ajmer; Jhunjhunu.

Strategy for Development : The strategy for rural development in the Five-Year Plan (1978–83), according to the draft outline, will be integrated rural development. Since the experience of previous Plans shows that piecemeal approach holds little chance of success, the emphasis will now be to make the Programme area specific and utilise the local endowments for growth and social justice. The approaches in the ongoing rural development programmes such as DPAP which are broadly area development schemes are proposed to be utilised according to their usefulness in particular areas to achieve the twin objectives of generating employment and increasing production. In the Five Year Plan (1978–1983), a sum of Rs. 28,000 million has been earmarked for rural development as against Rs. 11,930 million during the Fifth Plan.

A comprehensive analysis of the problems of the drought prone areas was made by the Task Force on Integrated Rural Development in 1973. The Fifth Plan policies in this regard were formulated on the basis of the Task Force's recommendations. The most important objective was to reduce, through appropriate investments and technology, the severity of drought and scarcity conditions and create a long-term stable basis for production and employment.

Agricultural Research Oriented Towards Low Rainfall Areas : The All India Co-ordinated Research Project on dry land farming was introduced in 1970 in 15 centres and 9 sub-centres. Canadian assistance for this scheme was obtained under an Indo-Canadian agreement. This project provides research base for the integrated pilot dry land farming project. The Central Arid Zone Research Institute was also established at Jodhpur in 1959 and has been functioning as a focal point on research on agricultural problems of arid areas.

Integrated Dryland Agricultural Development

The Centrally sponsored scheme of Integrated Dryland Agricultural Development initiated in 1970-71 is being continued. Under this scheme, 24 pilot projects were taken up in dry areas to act as demonstration-cum-training projects in 12 States in close proximity to the ICAR research centres/sub-centres. Under these projects, the various programmes in operation during the year included cultivation of drought-resistant, short-duration and high yielding varieties of crops, adoption of improved dryland, modern technology with stress on use of fertilisers and pesticides, soil conservation, land shaping, land levelling, water harvesting, construction of wells, bunds, bundhis, foliar spraying of urea, etc. Besides, the programmes of animal husbandry and dairying e.g. supply of improved milch cattle, poultry and piggery development were taken up with a view to providing a supplementary source of income to the farmers. These programmes also generate employment potential for landless and agricultural labourers.

The large number of demonstrations laid out on farmers, fields have revealed that by following the improved dryland farming techniques, the increase in agricultural production amounts to about four quintals per hectare which is generally 50 to 100 per cent higher than that obtained through growing crops with traditional methods. The implementation of the scheme has helped in the education of the farmers in growing coarse foodgrains, oilseeds and other hardy crops which are generally suitable for the dryland areas.

FLOODS

GAUGING Stations : The Central Water & Power Commission has set up 21 gauging stations along major rivers and their tributaries in Madhya Pradesh, Maharashtra, Gujarat and Rajasthan as part of its all-India project to collect accurate and reliable data of river flows for a scientific study of the country's surface water potential.

Flood Prone Areas : According to the studies made by Dr. Khosla in 1949 (the then Chairman of C. W. & P. C.), the total annual flow of all the river systems in India comes to 1,672,599 m.cu.m. (1,356 million acre feet). Another appraisal of the water resources of the country made in 1960 based largely on statistical analysis of the flow-data and on suitable rainfall run off relationship (wherever observed data was meagre) puts the total flow at 1,881,057 m.cu.m. (1,525 million acre feet). Several studies have also been undertaken by the Surface Water Resources Directorate (SWRD) of the C.W. & P.C. However, various estimates do not tally and this clearly underscores the importance of scientific observation for each river system. Only one-third of water resources available in the country could be used for agricultural purposes.

Floods are almost an annual occurrence because of India's extensive river systems. The flood havoc is acute in the Ganga and Brahmaputra basin states of Bihar, Uttar Pradesh, West Bengal and Assam as well as in Orissa

As much as 60 per cent of the flood damage is caused by the Himalayan rivers.

It is estimated that flood control measures taken till the end of the Fourth Plan, have afforded some degree of protection to about 8 million hectares and an additional 2 million hectares have been immunised from floods till 1976-77. According to the latest assessment, the total area liable to floods is 25 million hectares of which 20 million hectares may be considered economically feasible of protection.

The region traversed by the Himalayan rivers is also subject to earthquakes and land-slides, which make large areas flood-prone. Growing frequency of floods in Andhra Pradesh, Maharashtra, Gujarat and Rajasthan is largely due to deforestation.

Flood Damage — Despite the increase in outlays on flood control in successive Plans, the estimated value of damage has also shown a rise. On an average floods affect an area of 6·7 million hectares annually including 2·6 million hectares under crops and the estimated yearly average damage is put at Rs. 2,500 million, 70 per cent of which relates to crops.

Flood Control : Since the initiation of flood control programme in 1954, considerable progress has been made in protecting areas from floods. The amount earmarked has also increased in successive plans. During the Fourth Plan the outlay on flood control was Rs. 1,750 million. In the Fifth Plan it rose to Rs. 3,450 million. In the Sixth Plan (1978-83) an outlay of Rs. 6,750 has been proposed. Flood control measures consist of building new embankments, the raising and strengthening of existing ones, town protection works, drainage channels and multipurpose reservoirs. These have to be supplemented by positive control of events that increase the damage potential, through measures like proper land use planning and regulation, the preparation of master charts to determine the exact areas which will get affected by floods of va magnitude. The Central Government has e National Commission on Floods (Rashtriya Barh to go into all these problems and advise compr on flood control. It has been asked to submit recommendations which were expected by the end

Progress Summary : To summarise the prog the various flood control schemes since the of the National Flood Control Plan in 1954, prote measures have covered 9·5 million hectares out estimated total of 25 million hectares regarded as prone. These steps comprised the following : 10,260 of embankments, 17,850 kms. of drainage chan town protection schemes and raising of 4,700 v above flood level.

In spite of these measures the damage due to floods shown a rising trend. A synoptic account of flood da is furnished in the table below with the damage to given in brackets.

Flood damage data for selected years

(Rs. in

1953	..	..	..	..	540	[illegible]
1960	..	..	..	..	670	[illegible]
1970	..	..	..	..	2,870	(1,62
1971	..	..	..	..	6,320	(4,23
1972	..	..	..	..	1,580	[illegible]
1973	..	..	..	..	4,990	(3,73
1974	..	..	..	..	2,820	(2,12
1975	..	..	..	..	2,180	(1,4
1976	..	..	..	..	7,510	[illegible]
1977	..	..	..	..	11,180	[illegible]

Note : In some years the figures include damage by cyclones also.

IRRIGATION AND POWER

IRRIGATION

Since the beginning of planned development in 1951 over 800 projects — major and medium — were taken up for execution. Of these about 450 have been fully completed and the rest partially commissioned.

Thus, the irrigation potential created from major and medium projects, which was only 9·7 million hectares in 1951 increased to 24·9 million hectares in 1977–78.

The total irrigation potential including that created by minor irrigation works rose from 22·6 million hectares to 52·2 million hectares during the same period.

It has been assessed that about 107 million hectares can be eventually irrigated — 72 million hectares by surface water and 35 million hectares by ground water.

Water Potential: The total water resources are assessed at 178 million hectare metres. However, because of limitations of physiography, topography, geology, dependability, quality and the present state of technology only a fraction of this will be utilised.

It has been assessed that about 67 million hectare metres of ground water can be tapped and utilised.

The land area that can be ultimately irrigated has been assessed to be 107 million hectares — 72 million hectares from surface water and 35 million hectares from ground water — as against possible gross cropped area of 200 million hectares of full development of irrigation potential.

Expenditure : The following table gives de expenditure incurred and potential created from and minor irrigation programmes during the various Pl

				Outlays in million Rs.	Additional irrigation potential created in million hectares
Pre-Plan	..	..	..	N.A.	9·7
1st Plan (1951–56)		..	..	3,760	2·5
2nd Plan (1956–61)		..	..	3,800	2·1
3rd Plan (1961–66)		..	..	5,760	2·3
Annual Plans (1966-69)			..	4,350	1·5
4th Plan (1969–74)		..	..	12,530	2·5
5th Plan (1974–79) (Prov.)			..	31,350	5·8

Programme for Medium Term Plan (1978 83)

The Government proposes to accelerate the tempo irrigation development setting itself a target of 8 hectares at an estimated cost of Rs. 74,000 million.

Minor Irrigation : There were 1·74 million in 1977–78 as against 3,000 in 1950–51. During this there was a phenomenal increase in pumpsets from to 5 million. The number of dug wells is 7·7 m

Every year 215,000 dug wells, 130,000 private tubewells and 3,000 public tubewells are being added to the total number. The number of pumpsets energised every year is around 300,000 whilst the total number energised upto 31st December 1977, was 3,204,014.

There has, however, been a great imbalance in the development and exploitation of minor irrigation resources in the various regions. Whereas states like Punjab, Haryana (in the north), and Tamil Nadu and Andhra Pradesh (in the south) with 20 per cent of the total groundwater resources, have 50 per cent of the total number of pumpsets in the country, the eastern states, like Orissa, West Bengal, Bihar and Uttar Pradesh with 50 per cent of the groundwater resources have only 15 per cent of the pumpsets.

One of the reasons for this imbalance is the non-availability of electricity in rural areas.

Although agriculture contributes 50 per cent to the Gross National Product it receives only 14 per cent of the total electricity sold.

The requirement of electricity for minor irrigation will go up from the present 8·5 billion units to 23·7 billion units by 1982–83.

POWER

Rural Electrification : Of the 576,000 villages in India 202,843 had been electrified upto 31st March, 1977.

Total Capacity : The total installed capacity at the end of 1976–77 was 24,040 M.W. comprising 21,815 M.W. in the utility sector and 2,225 M.W. in the non-utility sector. The gross generation capacity during 1976–77 was 89,200 Gwh. from utilities. 1,020 M.W. of additional generation capacity has been added during 1977–78 thereby increasing the total installed capacity to 25,060 M.W. with 22,835 M.W. in utilities.

Per Capita Consumption : The per capita consumption rose from 109·9 kWh in 1975–76 to 118·8 kWh during 1976–77. It was only 17·8 kWh in 1950–51.

Resources : Hydro : The Central Water and Power Commission survey done in 1953–59 placed the potential from this source at 221 TWH of energy generation per annum equivalent to a continuous output of 25·26 million kW.

This estimate, however, did not include the seasonal energy generation, particularly from schemes located in the Himalayan region which are mostly run-of-river type developments. The potential of small schemes was also not included which could be covered only by site investigations.

Subsequent surveys by State Governments indicated a much higher potential.

The total installed hydro capacity in February 1978, aggregated to 9·69 million kW, which constitutes about 39 per cent of the total installed capacity.

The following hydro-electric schemes were commissioned upto February 1978 :

Name of scheme	Installed capacity in M.W.
1. Dehar Power station unit I	165
2. Lower Sibru unit III	100
3. Pong Power House unit I	60
4. Nagarjunasagar	110
5. Lower Jhelum unit I	35
6. Kundha Power House No. III	60
	530

Coal : Coal-based thermal power stations contribute about 56·6 per cent of the total power generation.

The latest estimates place the reserves of coal at 82,770 million tonnes. Of these resources about 19,400 million tonnes are of the coking variety and 63,370 million tonnes of non-coking variety.

The total lignite reserves are estimated at about 2,100 million tonnes. The reserves of tertiary coal is estimated at 900 million tonnes.

Coal production which was around 78 million tonnes in 1973–74 increased to 88·4 million tonnes in 1974–75, 99·8 million tonnes in 1975–76 and 101·24 million tonnes in 1976–77. The total lignite production during 1976–77 was about 4·01 million tonnes.

The total installed generating capacity of the coal-based thermal power stations is 11,714 M.W. at the end of February 1978.

Oil and Gas : Oil and gas have played an extremely limited role in the production of electricity. India has a large sedimentary area covering 1·41 million sq. kms. of land and 0·26 million sq. kms. off-shore, which are considered as potential oil bearing regions. Only a few gas turbine power plants located close to oil and gas wells and refineries and diesel power plants in isolated regions and some industrial establishments for providing standby power supply exist.

Nuclear Energy : Nuclear power generation was initiated in 1969 with the commissioning of the Tarapur Atomic Power Station with an installed capacity of 420 M.W. The following nuclear power stations are under construction.

1. Rajasthan Atomic Power Station (near Kota) 2 × 200 M.W.
2. Madras Atomic Power Station (near Kalpakam) 2 × 235 M.W.
3. Narora Atomic Power Station (Uttar Pradesh) 2 × 235 M.W.

Of this the first unit of 200 M.W. at RAPS was commissioned in December 1973. The second unit of RAPS is in an advanced stage of erection.

Non-Conventional Sources of Energy : During the last three years considerable attention has been devoted to the possibilities of using solar energy, geo-thermal energy, tidal power and wind power. Solar energy is the most promising of the non-conventional sources of energy in India.

Solar Energy : The minimum and average solar radiation in some representative locations in India are given below :

Location	Solar radiation (in cals/per sq. cm/day)		
	Maximum	Minimum	Average
Madras	765	605	720
Bangalore	746	562	668
Bombay	795	542	701
Calcutta	817	501	681
Delhi	827	421	655
Srinagar	738	239	631

Solar energy and bio-gas offer the greatest scope and very high priority has been accorded for their development. IIT (Madras), Bharat Heavy Electricals Ltd. and the National Physical Laboratories are associated with a West German firm to develop a 10 kW solar Power Generation Unit for demonstration.

POWER SUPPLY POSITION IN INDIA : APRIL — JUNE 1978

(In Gwh

Region/State	APRIL 1978			MAY 1978			JUNE 1978		
	Anticipated Requirement	Supply (actuals)	Shortage (—) (or) Surplus (+)	Anticipated Requirement	Supply (actuals)	Shortage (—) (or) Surplus (+)	Anticipated Requirement	Supply (anticipated)	Shorta (—) (or Surpl (+)
Northern Region									
Haryana	8·30	7·94	— 0·36	7·10	8·43	+ 1·33	8·50	8·50	
Himachal Pradesh (Incl. BSL) ..	0·80	0·82	+ 0·02	0·77	0·81	+ 0·04	0·76	0·76	
Jammu & Kashmir	1·70	1·80	+ 0·10	1·80	1·50	— 0·30	1·67	1·53	— 0·
Punjab	10·50	11·44	+ 0·94	12·00	14·12	+ 2·12	14·50	14·50	
Rajasthan	9·30	9·09	— 0·21	8·70	8·68	— 0·02	9·00	9·00	
Uttar Pradesh ..	39·00	30·80	— 8·20	35·48	31·94	— 3·54	38·30	33·86	— 4·
Delhi	5·90	5·71	— 0·19	6·15	6·60	+ 0·45	6·47	6·16	— 0·
Chandigarh ..	0·55	0·47	— 0·08	0·48	0·59	+ 0·11	0·57	0·57	
Nangal Fertilizer ..	2·40	2·35	— 0·05	2·40	2·41	+ 0·01	2·40	2·40	
TOTAL ..	78·45	70·42	— 8·03 (— 10·2)	74·88	75·08	+ 0·20 (+ 0·3)	82·17	77·28	— 4· (— 6·
Western Region									
Gujarat	22·67	23·37	+ 0·70	20·64	23·36	+ 2·72	19·17	19·17	—
Madhya Pradesh ..	14·93	14·47	— 0·46	14·68	14·15	— 0·53	14·67	13·53	— 1·
Maharashtra ..	47·67	43·02	— 4·65	48·75	42·59	— 6·16	46·83	38·47	— 8·
Goa	0·80	0·64	— 0·16	0·80	0·74	— 0·06	0·90	0·55	— 0·
TOTAL ..	86·07	81·50	— 4·57 (— 5·3)	84·87	80·84	— 4·03 (— 4·7)	81·47	71·72	— 9· (— 12·
Southern Region									
Andhra Pradesh ..	16·20	14·97	— 1·23	14·55	14·55	—	15·03	15·03	—
Karnataka ..	23·50	15·75	— 7·75	23·65	14·96	— 8·69	22·73	14·65	— 8·
Kerala	8·33	7·85	— 0·48	8·45	7·49	— 0·96	8·36	8·36	—
Tamil Nadu ..	28·60	29·26	+ 0·66	27·82	27·14	— 0·68	28·70	28·70	—
Pondicherry ..	0·40	0·40	—	0·40	0·40	—	0·40	0·40	—
TOTAL ..	77·03	68·23	— 8·80 (— 11·4)	74·87	64·54	— 10·33 (— 13·8)	75·22	67·14	— 8· (— 10·
Eastern Region									
Bihar	11·00	6·67	— 4·33	11·00	6·40	— 4·60	11·00	10·30	— 0·7
West Bengal ..	17·20	14·07	— 3·13	17·10	15·25	— 1·85	16·30	16·30	—
D.V.C.									
(i) W.B. Portion (ii) Bihar Portion	12·80	11·73	— 1·07	12·80	11·27	— 1·53	13·30	13·00	— 0·3
Orissa	8·50	7·92	— 0·58	8·00	7·61	— 0·39	7·90	7·90	—
TOTAL ..	49·50	40·39	— 9·11 (— 18·4)	48·90	40·53	— 8·37 (— 17·1)	48·50	47·50	— 1· (— 2·
North-Eastern Region ..	3·30	2·10	— 1·20 (— 36·4)	3·30	2·20	— 1·10 (— 33·3)	3·30	2·50	[illegible]
ALL-INDIA ..	294·35	262·64	— 31·71 (— 10·8)	286·82	263·19	— 23·63 (— 8·2)	290·66	266·14	[illegible]

Notes : (i) 1 Gwh = 1 Million kWh.

(ii) All figures are at station bus after deducting consumption in station auxiliaries.

Figures in brackets are percentage shortfall in supply to the anticipated requirements.

Geo-thermal Energy : Western Himalayas and the west coast are areas where geo-thermal manifestations occur. A project for carrying out explorations to establish geo-thermal potential is under way with help from UNDP. Present indications are geo-thermal energy would have very limited potential.

Tidal Power : Investigations on the use of tidal power have been carried out and the Gulfs of Kutch and Cambay on the West Coast and the Sunderbans area on the East Coast have been identified as areas where tidal range is fairly high and where tidal power could be developed.

It is estimated that a single basin development would provide an annual energy potential of 15,400 Gwh, with an installation of about 7,400 MW in the Gulf of Cambay and 3,000 Gwh with an installation of 1,200 MW in the Gulf of Kutch. The sites in the Sunderbans area can provide outputs of only about 1,500 to 2,000 KW with annual energy potential of 3 Gwh.

The main problem with tidal energy relates to the high initial cost, the variable nature of the output and the technical and economic problems involved in firming up this power.

Wind Power: It has been found that by and large wind velocities are low and winds are not steady enough to permit any significant use of this source of energy. Research and Development work on development of suitable wind-mill designs for lifting water and generating electricity along the coasts and on the hills, is in progress.

Bio-gas : The programme of bio-gas development as implemented till 1977 was oriented to establishing small-size plants to serve the needs of individual families. This programme has been inadequate to harness the large bio-gas potential rapidly.

For economic and accelerated development of bio-gas potential, the government has found it essential to develop large size bio-gas plants serving a whole village.

A pilot project for establishing community-type bio-gas is under preparation.

National Power Grid : In order to extend the concept of integrated operations of systems from regions to the all India level, it is necessary to develop a National Power Grid. With the plans on hand, for construction of power stations with large capacity units, it has become necessary to adopt higher voltages for the transmission of power. Since the parameters involved are large and the associated problems complex, for efficient integrated operation, computerisation has become inescapable. Accordingly, System Planning Studies are being done in the CEA in association with M/s. Teshment of Canada for developing the optimal EHV network requirements on a long-term basis. The 400 KV system to be developed in the next 5–6 years would be shortly finalised. It is anticipated that about 16,000 circuit kms. of 400 KV lines would be required to be constructed in the next 5 years. For the first time a 400 KV line between Obra and Sultanpur in U.P. was test-charged in December 1977. Action is underway for establishing the National Load Despatch Centre at New Delhi. The present status of integrated operations of the Power Systems in the country is summarised as follows :

(*i*) In the Northern, Western, and Southern Regions, all the constituent systems are interconnected and are operating in an integrated manner.

(*ii*) In the Eastern Region, the Bihar, West Bengal, DPL and DVC and Orissa Systems are interconnected. While the West Bengal, DPL and DVC Systems are operating in parallel, the Orissa System (which is operating in parallel with the Southern Region) is catering to certain loads in Bihar radially.

(*iii*) In the North-Eastern Region, the Assam and Meghalaya Systems are operating in parallel. Mizoram, Nagaland and Arunachal Pradesh are partly fed from Assam.

FORESTS

TOTAL forests : 74.6 mill. hectares. Percentage of forests to land : 22.7. **Per capita** forest area 0.14 hectares as compared to world average of 1.08 hectares. An average of 3.6 million people are engaged in forestry activities.

Revenue from forests : Rs. 1,322 million. Forest revenue as percentage of national revenue : 2.2.

By **composition**, coniferous forests constitute 4.2 million hectares, the broad-leaved species such as sal and teak aggregate to 20.5 million hectares, while miscellaneous trees account for 49.9 million hectares. The forests are owned by the State (95.0 per cent), by corporate bodies (3 per cent) and by private individuals (2.0 per cent).

The forests are unevenly distributed and the **production** is also proportionately low, being only 0.5 cu.m. per hectare per year as against the world average of 2.1 cu.m. per hectare. Forests are **located** mostly in hilly terrain or remote interior areas where communications are not properly developed. Madhya Pradesh has the maximum forest area and accounts for about 23 per cent of the country's total forest area. Other important wood-rich States are Andhra Pradesh, Assam, Himachal Pradesh, Karnataka, Maharashtra, Orissa, Rajasthan, Uttar Pradesh and Andaman and Nicobar Islands.

Classification : The forests in India can be broadly classified in the following major groups.

(*i*) Tropical forest ; (*ii*) Montane sub-tropical forest; (*iii*) Montane temperate forest and (*iv*) Alpine forest.

Each of these groups has a number of types which are in turn divided into sub-types. 16 broad climatic forest groups are recognised in this country. These are :

1. Tropical Wet Evergreen Forest — 4.503 million hectares including semi-evergreen forests (Parts of Assam, West Bengal, Karnataka, Kerala and Andaman and Nicobar Islands).
2. Tropical Semi-Evergreen Forest — (Parts of Assam, West Bengal, Orissa and Andamans).
3. Tropical Moist Deciduous Forest — 23.303 million hectares (Parts of Andamans, Uttar Pradesh, Madhya Pradesh, Maharashtra, Karnataka, Orissa, Tamil Nadu and Kerala).
4. Tropical Dry Deciduous Forest — 29.154 million hectares (Almost all over India).
5. Littoral and Swamp Forests — (Deltas of big rivers).
6. Tropical Thorn Forest—5.236 million hectares (Parts of Punjab, Haryana, Rajasthan, Upper Gangetic plains, the Deccan Plateau and Lower Peninsular India).
7. Tropical Dry Evergreen Forests — 0.075 million hectares (Restricted to a small area of the East Coast in Tamil Nadu).

8. Sub-Tropical Dry Evergreen Forests — 0.173 million hectares (Siwaliks and the Western Himalayas up to about 1,000 m).
9. Sub-Tropical Broad-leaved Hill Forests — 0.287 million hectares (Lower slopes of the Himalayas in W. Bengal and Assam and other hill ranges such as Khasi Hills, Nilgiris and Mahableshwar).
10. Sub-Tropical Pine Forests — 3.740 million hectares (North-West Himalayas, between 1,000 m to 1,800 m and in Khasi, Manipur and Naga Hills).
11. Montane Wet Temperate Forests — 1.613 million hectares (Tamil Nadu and Kerala above 1,500 m and in the Eastern Himalayas, Viz., W. Bengal, Assam, Arunachal Pradesh from 1,800 m to 3,000 m).
12. Himalayan Moist Temperate Forests — 2.725 million hectares including dry Temperate Forests. (Entire length of Himalayas between the pine and sub-alpine forests in Kashmir, Himachal Pradesh, Punjab, Uttar Pradesh and Sikkim between 1,500 m to 3,300 m).
13. Himalayan Dry Temperate Forests (Inner ranges of the Himalayas where S-W monsoon is very feeble).
14. Sub-Alpine Forests
15. Moist Alpine Scrub
16. Dry Alpine Scrub

Higher elevations over 3,000 m on the Himalayas.

The treeless zone is the habitat of the Tibetan sheep, bharal, woolly hare with occasional appearance of snow leopard.

Over 16 per cent of the total forest area is inaccessible and 45 per cent of these could yield timber and other forest products.

Education and Research : Forest research and education are centralised in the Forest Research Institute and Colleges located at Dehra Dun. The Institute is recognised by the F.A.O. as a centre for training in forestry for South-East Asia.

The Forest Research Institute and Colleges are under the administrative control of the Ministry of Agriculture and Irrigation of the Government of India. Its administrative head is designated the President. It has under its control four Regional Forest Research Centres, one each at Bangalore, Jabalpur, Coimbatore and Barnihat to deal with the special problems pertaining to the area. Forestry education is imparted through Indian Forest College and Northern Forest Rangers College at Dehra Dun and State Forest Service College, Southern Forest Rangers College, Eastern Forest Rangers College and Central Forest Rangers College at Barnihat, Coimbatore, Kurseong and Chandarpur respectively.

The institute has five directorates working under the President, viz., (1) The Directorate of Forest Education training professional foresters for Indian Forest Service, State Forest Service and Rangers for Centre and the States; (2) The Directorate of Forestry Research having eight branches — the Silviculture branch, the logging branch, the forest genetics branch, the minor forest products branch, the forest economics branch, the silvics branch, the forest soils branch, and the forest management and mensuration branch; (3) the Directorate of Biological Research having four branches — the systematic botany branch, the forest pathology branch, the entomology branch, and the wood anatomy branch; (4) the Directorate of Forest Products Research having eight branches — the wood seasoning branch, the composite wood branch, the cellulose and paper branch, the timber mechanics branch, the timber engineering branch, the chemistry of forest products branch, the wood preservation branch and the wood working, saw milling and finishing branch; (5) Direc torate of Wildlife Research & Training.

Besides forestry training, the Institute also impart training in wood seasoning, wood preservation and pu and paper technology and also imparts vocational train in forest based industries. It also provides research faci ties for post M.Sc. and post doctorate research on forestr subjects to university scholars.

Central Schemes : During the Fifth Five Year Pla period 8 more schemes sponsored by the Government India were established : (i) Pilot Scheme for Research an Demonstration in growing Cash Crops, Ranchi, (ii) Settin up Seed Banks and Seed Improvement and Tree Breedi Centres, Secunderabad, (iii) Research and Pilot Demonstra tion, Oleo-resin, Shillong, (iv) Eucalyptus Research Centr Hyderabad, (v) Sandal Spike Research Centre, Bangalor (vi) High Level Conifers Regeneration Research Cent Simla, (vii) Tropical Pines Research Centre, Dehra Du (viii) Environmental Research Station for study effect of vegetation on soil loss and run off in catch areas and correlation of atmospheric precipitation wit vegetable cover and streamflow.

Logging Training Centres Project : Training courses in basic logging are run in the Northern Zone (Dehra Dun Central Zone (Chandrapur), Eastern Zone (Sukna) and in the Southern Zone (Coimbatore). Training courses in the operation and maintenance of logging equipment, plannin and efficiency of logging operations and saw milling operation of cable ways are run at Dehra Dun, Chandrapur and Kul respectively.

In the 1976-78 course, 35 I.F.S. probationers, beside one from Malaysia, passed from the Indian Forest Colleg 149 rangers from India and 11 from foreign countrie passed out from the Northern and the Central colleges.

Development Programmes : Forestry development includes elements such as rehabilitation of degraded forests soil and moisture conservation, farm forestry, road-side and canal bank plantation, creation of wind breaks, woo lots on community land and pasture development. Emphasis is being laid on arresting the process of deforestation both for ecological reasons and to check so erosion.

The programme of pasture development is being linke with sheep development through a scientific selection of suitable grass species for different agro-climatic zone It is also expected that farm forestry would provide enoug fuel wood for consumption so that organic manure will b available for utilisation on the soils for crop producti During the Fifth Plan (upto 30th Sept., 1976) plantati was undertaken on 74,098 hectares. Farm forestry an extension forestry was undertaken on 2,323 hectares an 639 kms. respectively. An area of 6,261 hectares was als brought under improved pastures.

Forest Produce : The forest produce can be broadl divided into two groups:—

(i) Major forest produce — timber and firewood. Th important varieties are teak (Tectona grandi deodar (Cedrus deodara), sal (Shorea robusta), sisso (Dalbergia sissoo), chir (Pinus roxburghii) and ka (Pinus wallichiana).

(ii) Minor forest produce — the commercially importan items under this are bamboos, canes, gums, resins dyes, tans, lac, fibres, floss and medicinal pla material.

Government is the largest timber producing agency the country. Sale of timber is done mostly by auction an in standing form.

Teak is by far the most important species which occurs over an area of 8.9 million hectares. More than 50 per cent of total area under teak is in Madhya Pradesh. The next are the States of Maharashtra, Andhra Pradesh, Karnataka, Kerala and Gujarat.

Sal ranks next to teak in its utility and value. Sal forests cover an area of 11.6 million hectares and are distributed in Assam, Bihar, Madhya Pradesh, Orissa, Tripura, Uttar Pradesh and West Bengal.

Rosewood which is valued for its grain and colour, is mostly obtained from Kerala, Karnataka, Tamil Nadu, Andhra Pradesh and Maharashtra.

Cedrus deodara (Deodara) is by far the most important coniferous species highly valued as constructional timber.

Pinus roxburghii (Chir pine) ranks second best for constructional purposes and for resin. **Abies pindrow** (Fir) and **Picea smithiana** (Spruce) represent the valuable long fibre resource for pulp and paper industry.

The total production of wood is estimated at 22·8 million cu.m. of which 9·1 million cu.m. constitute industrial wood. Fuel wood production is 13·7 million cu.m. including wood for charcoal. This represents an increase of about 15 per cent over the production figures of 1966.

There are about 3,000 saw mill units. Their capacities range from 10 tonnes to 200 tonnes per day. There is an increasing tendency of opening departmental saw mills in the various forest departments to obtain rational utilisation of forest produce. Some of the saw mills have introduced their own seasoning kilns.

Exports and imports of forest products: The exports of total forest products (major and minor products) went up from Rs. 330 million in 1972–73 to Rs. 608 million in 1973–74. On the other hand, imports during 1973–74 showed a marginal fall and stood at Rs. 435 million as against Rs. 439 million in 1972–73.

Preservation of wild life: Wild Life Protection Act, 1972 which governs the wild life conservation and protection of endangered species both inside and outside forest areas, has been extended to most of the States and Union territories.

Trade in wild life and its products has been brought under the purview of the Act, and further restrictions have been imposed on the export trade of a number of animals, birds and their products. The export of rare and endangered species has been totally banned and a number of other products have been brought under quota system to regulate the export. Already 142 sanctuaries and national parks have been set up and efforts are being made to manage them scientifically.

Project Tiger: The Project Tiger was launched on 1st April, 1973, at the Corbett National Park (U.P.) to protect and perpetuate the tiger. The Project covers a total area of 13,017 sq. kms. in nine reserves of nine States. It is proposed to eliminate all the disturbing factors at least from a core area of 300 sq. kms. in each of the nine reserves. An allocation of Rs. 3·6 million was made for the implementation of this project during 1974–75.

A sum of Rs. 7·5 million is expected to be received from certain world organisation, like the World Wide Life Fund in support of the project.

Wild Life Societies: The following are some of the important societies concerned with conservation in India: (1) Assam Valley Wild Life Society, Pratapgarh, TE, P.O. Sootea, Darang, Assam; (2) The Bihar Natural History Society, Patna 800001; (3) Indian Board of Wild Life, Dept. of Agriculture, Krishi Bhavan, New Delhi 110001; (4) Gujarat Natural History Society, 57, Pritamnagar, Ellis Bridge, Ahmedabad 380001; (5) Peermade Wild Life Preservation Society, Stagbrook Estate, Peermade P.O., Kerala; (6) High Range Game Association, Munnar P.O., Kerala; (7) Bombay Natural History Society, Hornbill House, Shahid Bhagat Singh Rd., Bombay 400001; (8) World Wild Life Fund Indian National Appeal, Hornbill House, Shahid Bhagat Singh Road, Bombay 400001; (9) Birdwatchers' Field Club of India, 32-A, Juhu Lane, Andheri, Bombay 400058; (10) Nilgiri Wild Life Association, Ootacamund 643001; (11) Wild Life Preservation Society of India, 7, Ashley Hall, Dehra Dun, 248001.

FOOD AND AGRICULTURE

EMPLOYMENT: Agriculture offered employment to over 126 million people in 1971 against 136 million in 1961.

Basic Facts (1974-75): Total geographical area: 328·8 million hectares; net area sown: 139 million hectares; area sown more than once: 24 million hectares; net irrigated area: 34 million hectares; consumption of fertilisers: 2·57 million tonnes; production of foodgrains (1977-78): 125 million tonnes; livestock population: 359 million; no. of cold storages: 93,000; no. of warehouses: Central 153, State 866.

Growth Rate: During the five years preceding partition in 1947 the average annual production of foodgrains stood at 62 million tonnes. Despite the loss of some of the most fertile areas, foodgrain production reached 60 million tonnes by 1952-53. Thereafter, the overall picture has been one of continued increase in production reaching 121 million tonnes by 1975-76, representing an increase of 79 per cent in 22 years or about 3·6 per cent per annum.

In the 20 years between 1952 and 1973 China's foodgrain production rose by 48 per cent or 2·4 per cent per annum. The rate of increase in world food production was, according to FAO estimates, 1 per cent in 1974 and 2-3 per cent in 1975.

This does not mean all is well with India's agriculture. The abysmal poverty of the peasants should be sufficient to dispel any complacency. Since agriculture's share in **India's Gross Domestic Product is about 43 per cent,** the health of the economy depends upon the health of agriculture.

Agriculture in India is not profitable for the overwhelming majority of people engaged in it. Between 1942 and 1976 the **per capita availability of foodgrains per day increased from 417·0 grammes to 456·8 grammes.** A portion of the increase was due to imports. From the nutritional angle the situation is utterly disturbing. For 1969–71 the average daily availability of calories and proteins for an Indian was about 2,071 calories and 51 grammes of protein. The daily per capita food supply in developed countries during this period contained 3,150 calories and 96·4 grammes of proteins.

Yield Per Hectare : The principal weakness of Indian agriculture is that the yield per unit area is low. The table below gives the yield rates for *paddy* and *wheat* — the principal crops — in India and other countries in 1975.

Paddy : (Per hectare in kgs.) Indonesia : 2,686 ; Japan : 6,185 ; Pakistan : 2,271 ; Philippines: 1,760 ; Thailand : 1,771 ; China : 3,235 ; Egypt : 5,326 ; USA : 5,105 ; Burma : 1,462 ; **India** : 1,877.

Wheat : (Per hectare in kgs.) Australia : 1,333 ; Canada: 1,802 ; China : 1,367 ; France : 3,888 ; Italy : 2,714 ; Pakistan : 1,323 ; Egypt : 2,504 ; U.K. : 4,382 ; USA : 2,060 ; **India** : 1,338.

The total paddy yield during 1975-76 was 74,474,000 tonnes comprising 32,377,000 tonnes of autumn paddy, 36,191,000 tonnes of winter paddy and 5,906,000 tonnes of summer paddy. The yield of summer paddy was around 2,925 kgs. per hectare. It was significantly higher in some States—3,774 kgs. in West Bengal and 3,459 kgs. in Tamil Nadu. If the area under summer paddy could increase — it is just 5 per cent of the total paddy area at present—the food situation would change significantly. Moreover, there are pronounced inter-state variations in the overall yield rates as can be seen from the following.

Yield rates in 1975-76 per hectare in kgs. : India : 1,877 ; Andhra Pradesh : 2,485 ; Tamil Nadu : 3,255 ; Punjab : 3,867 ; Bihar : 1,382 ; Orissa : 1,488 ; Assam : Uttar Pradesh : 1,402 ; West Bengal : 1,879.

This variation is also true for wheat which has increased to 1,409 kgs. per hectare in 1976. The per yield was 1,980 kgs. in Haryana and 2,375 kgs. in whilst Rajasthan, Uttar Pradesh and Bihar produce kgs. per hectare. The lowest production is in Pradesh where the per hectare yield is only 846 kgs.

High Yielding Varieties Programme: Cultivat high yielding varieties of rice, wheat, maize, jowar bajra is the new agricultural strategy for increasing grain production. During 1977-78 it was targetted to the area under these varieties to 37 million hecta against the estimated achievement of 34 million in 1976-77. The crop-wise break up is given below :

(Million

Crop			1976-77 Achievement	1977-78 Target
Rice	..	..	13·5	15·0
Wheat	..	..	14·7	15·0
Maize	..	..	1·2	1·3
Jowar	..	..	2·4	3·0
Bajra	..	..	2·2	2·7
Total		..	34·0	37·0

Estimates of production of major crops during five years ending 1976-77

Crop	Unit	1972-73	1973-74	1974-75	1975-76	1976-77
Rice	mil. tons.	39·25	44·05	39·58	48·74	42·79
Wheat	mil. tons.	24·74	21·78	24·10	28·85	29·08
Other Cereals	mil. tons.	23·13	28·82	26·13	30·40	28·49
Total Cereals	mil. tons.	87·12	94·65	89·81	107·99	100·36
Gram	mil. tons.	4·54	4·10	4·02	5·88	5·36
Total Pulses	mil. tons.	9·91	10·01	10·02	13·04	11·21
Total Foodgrains ..	mil. tons.	97·03	104·66	99·83	121·03	111·57
Potatoes	mil. tons.	4·45	4·86	6·23	7·31	7·29
Tapioca	mil. tons.	6·37	6·42	6·33	6·64	6·48
Groundnuts (with shells)	mil. tons.	4·09	5·93	5·11	6·75	5·26
Total five major Oilseeds	mil. tons.	6·86	8·85	8·53	9·91	7·83
Sugarcane (gur) ..	mil. tons.	12·76	14·43	14·72	14·41	15·84
Cotton	mil. bales of 170 kgs. each	5·74	6·30	7·16	5·95	5·78
Jute	mil. bales of 180 kgs. each	4·98	6·22	4·47	4·44	5·35
Mesta	mil. bales of 180 kgs. each	1·11	1·46	1·36	1·47	1·74

Foodgrain Production (1976-77) : Weather conditions during the agricultural year were not as favourable as in 1975-76. The overall index of agricultural production dropped to 117·1 (triennium ending 1969–70 — 100) during 1976-77 from the peak level of 125·5 in 1975-76.

In absolute terms the output of foodgrains during 1976-77 was estimated at 111·6 million tonnes against the revised estimate of 121·03 million tonnes in 1975-76. Despite the shortfall the level of foodgrain production in 1976-77 was the second highest on record.

Among foodgrains, bulk of the decline in 1976-77 was accounted for by rice. Other crops that declined during the year were maize, barley and pulses.

The production of wheat during 1976-77, touched a new high of 29 million tonnes. Among commercial crops, the production of sugarcane (in terms of gur) showed a further rise to a level of 15·8 million tonnes. The prod of five major oilseeds and cotton suffered a set back production of oilseeds was estimated at 7·83 tonnes, while that of cotton at 5·78 million bales (kgs. each). The production of jute and mesta recovery and was placed at 7·09 million bales (each).

Food Exports : Exports of agricultural contributed substantially to India's total export In 1976-77 the export of agricultural produce Rs. 10,840 million as compared to Rs. 12,170 previous year. The decline was largely due to the exports of sugar from Rs. 4,720 million in 197 Rs. 1,480 million in 1976-77. Other comm register a fall in export earnings were : Raw cotton million in 1976-77 as against Rs. 420 million the year ; Raw Jute Rs. 10 million in 1976-77 as Rs. 100 million in 1975-76.

However, significant increases were registered in the export of oilcake (Rs. 1,270 million), fish and fish products (Rs. 530 million), meat and meat preparations (Rs. 70 million), pepper (Rs. 40 million), and unmanufactured tobacco (Rs. 30 million).

Foodgrain Targets for 1977-78 : With power and irrigation situation quite comfortable and a 27 per cent increase in the consumption of fertilisers the crop prospects were much brighter than in 1976-77.

Food Consumption : The per capita consumption in India of all food items in terms of calories compares as follows: Canada: 3,200; USA : 3,300 ; U.K. : 3,170 ; Japan : 2,470 ; India : 1,990.

The increase in population by about 12 million persons per year in itself requires one million tonnes of additional grain. With an increase of the per capita intake of 100 calories per day the country would require an additional five million tonnes per year.

Foodgrain Loss : Six million tonnes of foodgrains valued at Rs. 10,000 million are lost every year because of non-scientific and old methods of storage.

Credit to Farmers : Land Development Bank (LDB) provided Rs. 1,930 million as credit to farmers during the co-operative year 1975–76. This was Rs. 214·3 million more than the loans disbursed in 1974–75.

The recovery position also improved with 68 per cent of the dues collected during 1975–76.

National Seeds Corporation Ltd., 4-E Jhandewalan, New Delhi 110055 and the **Tarai Seeds Development Corporation,** Pantnagar, P.O. Haldi, Nainital (U.P.), were set up for the supply and production of foundation/certified seeds of the high yielding varieties.

Mechanised Farms : There are 14 Central and State mechanised farms in operation. They are located in Khammam (Andhra Pradesh) ; Kokilabut (Assam) ; Hissar (Haryana) ; Raichur (Karnataka) ; Aralam (Kerala) ; Lokichera and Lushiachera (Mizoram) ; Jharsuguda (Orissa) ; Lodhowal (Punjab) ; Suratgarh and Jetsar (Rajasthan) ; Chengam (Tamil Nadu) ; Bahraich and Rae Bareili (Uttar Pradesh).

The cultivated area of these farms is about 35,000 hectares. Apart from providing improved varieties of seeds they help local farmers with land development, levelling, reclamation and harvesting on a commercial basis.

Food Corporation : The Food Corporation of India was set up as a statutory body in January, 1965, to purchase

(Continued on page 106)

Primary Agricultural Credit Societies (All India Trend)

Items	Pre-I Plan Year (1950–51)	Pre-II Plan Year (1955–56)	Pre-III Plan Year (1960–61)	Pre-IV Plan Year (1968–69)	1973–74	1974–75	1975–76‡	1976–77 (Provisional)
1	2	3	4	5	6	7	8	9
1. No. of Societies (million) ..	·105	·160	·212	·168	·154	·153	·135	·123
2. Percentage of villages covered	N.A.	N.A.	74	92	95	95	97	97
3. Membership (Nos. in million)	4·408	7·791	17·041	29·173	34·956	36·442	39·521	41·547
4. Percentage of rural population covered (Estimated)	7	12	24	34	41	41	45	47
5. Share Capital (Rs. million)								
(a) Total	76·1	168·0	577·5	1673·1	2710·6	2963·9	3273·1	3499·1
(b) Govt. contribution	N.A.	05·8*	57·1	130·3	289·8	314·0	350·9	893·3
6. Deposits (Rs. million) ..	42·6	70·4	145·9	568·4	892·8	1010·5	1133·1	1193·5
7. Working Capital (Rs. million)	372·5	791·0	2739·2	8122·2	15,802·0	18,014·8	19,897·0	20,711·1
8. Loans advanced (Rs. million)								
(a) Total	229·0	496·2	2027·5	5039·7	7004·6	9008·2	10,234·5	11,533·5
(b) Medium Term ..	N.A.	134·6†	189·3	474·8	711·5	1182·3	1051·6	1214·0
9. Loans overdue (Rs. million)								
(a) Total	63·8	149·6	443·0	2140·4	4432·4	5033·9	5605·1	6117·8
(b) Loans overdue as percentage of loans outstanding..	22	25	20	35	42	43	43	42
10. Average per society								
(a) Membership (Nos.)	45	49	80	174	227	239	293	338
(b) Share Capital (Rs.)	727	1,051	2,722	9,973	17,623	19,407	24,245	28,490
(c) Deposits (Rs.) ..	408	441	688	3,388	5,805	6,619	8,393	9,718
(d) Loans advanced (Rs.)	1,983	3,102	9,558	30,041	49,443	59,004	75,811	93,908
11. Average per member (Rs.)								
(a) Share Capital ..	17	22	35	57	78	81	83	84
(b) Deposits	10	9	9	19	26	28	29	28
(c) Loans advanced ..	44	64	119	172	281	247	259	278

* Relates to 1956-57 † Relates to 1957-58

‡ Excludes Assam, Jammu & Kashmir, Meghalaya and A. & N. Islands.

AREA AND CLASSIFICATION — 1972-73

(Thousand hectares) (Provisional) (As on 2nd Sept. 1975)

States/Union Territories	Geographical area	Area for land utilisation	Forests	Area put to non-agricultural use	Barren and unculturable land	Permanent pastures and other grazing land	Land under miscellaneous tree crops and groves not included in net area sown	Culturable waste land
1	2	3	4	5	6	7	8	9
Andhra Pradesh	27,682	27,740	6,294	2,085	2,347	976	284	1,090
Assam(*b*)	7,852	7,795	2,080	768	1,787	234	226	184
Bihar	17,388	1,733	2,811	1,570	1,086	170	202	506
Gujarat	19,598	18,898	1,576	719	4,508	975	15	588
Haryana	4,422	4,404	117	304	178	46	2	34
Himachal Pradesh	5,567	5,100	2,806(*f*)	190	130	1,191	44	127
Jammu & Kashmir	22,224	4,519†	2,770(*f*)	327	237	125	107	149
Karnataka	19,177	19,055	2,889	973	865	1,575	311	595
Kerala	3,886	3,859	1,055	276	68	28	115	74
Madhya Pradesh	44,284	44,233	14,393	2,079	2,285	3,140	144	2,065
Maharashtra	30,776	30,758	5,404	886	1,785	1,662	205	1,233
Manipur(*g*)	2,236	2,211	602	26	1,419*	(*l*)	24	(*l*)
Meghalaya	2,249	2,251	740	50	216	54	76	650
Nagaland	1,653	1,653	288	—	1,262(*i*)	—	—	—
Orissa	15,578	15,540	6,088	540	340	543	619	455
Punjab	5,036	5,031	104	419	218	5	4	73
Rajasthan	34,222	34,281	1,437	1,376	4,720	1,799	9	5,881
Tamil Nadu	13,007	13,008	2,008	1,504	803	229	237	457
Tripura	1,048	1,048	628	47	6	31	83	7
Uttar Pradesh	29,441	29,723(*q*)	4,952	2,031	1,418	78	1,254	1,306
West Bengal	8,785	8,852(*q*)	1,101	(*R*)	1,272	(*l*)	607	(*l*)
Andaman & Nicobar Islands ..	829	793	747	2	2	3	19	4
Arunachal Pradesh	8,358	5,644	5,154	—	37	—	19	149
Dadra & Nagar Haveli.. ..	49	49	21	(*a*)	(*a*)	1	—	3
Delhi	149	148	1	37	13	(*a*)	—	2
Goa, Daman & Diu(*g*)	381	370	195	21	16	1	1	83
Lakshadweep	3	2	—	(*a*)	—	—	(*a*)	—
Mizoram	2,109	2,108	1,275	10	556	6	8	71
Pondicherry	48	47	—	11	(*a*)	(*a*)	2	1
All India	328,758(*r*)	306,150	67,446	16,251	27,574	12,872	4,617	[illegible]

AREA AND CLASSIFICATION — 1972-73 (*Contd.*)

(Thousand hectares) (Provisional) (As on 2nd Sept. 1975)

States/Union Territories	Fallow land other than current fallows	Current fallows	Net area sown	Total cropped area	Area sown more than once	Net irrigated area	Gross irrigated area
1	2	3	4	5	6	7	8
Andhra Pradesh	1,050	2,236	11,078	12,314	1,236	2,955	3,573
Assam	116	65*	2,335	3,035	700	572	N.A.
Bihar	917	2,015	8,053	10,383	2,330	2,278	2,688
Gujarat	399	1,056*	9,062*	9,628*	566	1,453	1,549
Haryana	(*a*)	168	3,555	5,188	1,633	1,632	2,478
Himachal Pradesh.. ..	3	50	559	929	370	95	165
Jammu & Kashmir ..	25	91	688	891	203	288	339
Karnataka	644	1,395	9,808	10,410	602	1,147	1,325
Kerala	21	25	2,197	2,987	790	446	623
Madhya Pradesh	892	738	18,497	20,742	2,245	1,699	1,762
Maharashtra	1,222	1,979	16,382	17,372	990	1,365	1,556
Manipur	—	(*a*)	140	162**	22	65	75
Meghalaya	252	49	164	182	18	48	51
Nagaland	—	—	103	103	(*a*)	32	32
Orissa	242	1,091	5,622	6,936	1,314	917	1,260
Punjab	—	122	4,086	5,932	1,846	3,041	4,551
Rajasthan	2,033	2,168	14,858	16,097	1,239	2,269	2,682
Tamil Nadu	575	863	6,332	7,699	1,367	2,815	3,673
Tripura	5	5	236	356	120	29	29
Uttar Pradesh	563	927	17,194	22,927	5,733	7,289	8,511
West Bengal	181*	(*m*)	5,691**	7,091	1,400**	1,489(*j*)	1,541(*j*)
Andaman & Nicobar Islands	4	1	11	12	1	—	—
Arunachal Pradesh ..	118	52	115	130	15	23	24
Dadra & Nagar Haveli ..	—	1	23	23	(*a*)	(*a*)	1
Delhi	8	8	79	110	31	52	62
Goa, Daman & Diu ..	—	—	133	139	6	8	8
Lakshadweep	—	—	2	2	(*a*)	—	—
Mizoram	51	64	65	71	6	4	4
Pondicherry	(*a*)	2	31	52	21	27	41
All India	9,321	15,171	137,099	161,903	24,804	32,038	39,175

(*a*) Below 500 hectares.

(*b*) Relates to the year 1969-70 except otherwise stated.

(*c*) Included under barren & unculturable land.

(*e*) Relates to the year 1971-72.

(*f*) Includes forest area under the control of Forest Department also.

(*g*) *Ad-hoc* estimates.

(*i*) Data estimated after deducting the area under Forest and Net area sown from Geographical area of the State.

(*j*) Data relates to the year 1967-68, except otherwise stated.

(*m*) Included under the head " Fallow land other than current fallows. "

(*n*) Data relates to the year 1970-71 is based on figures collected for agricultural census 1970-71.

* Adjusted.

** Estimated.

FOOD CROPS (1976–77)

(Area : Thousand Hectares ; Production : Thousand T

States/Union Territories	Rice		Wheat		Jowar		Maize	
	Area	Production	Area	Production	Area	Production	Area	Production
Andhra Pradesh	3,649	5,030	24	15	2,048	1,010	289	293
Assam	2,285	2,133	64	71	—	—	19	11
Bihar	5,322	4,765	1,945	2,470	11	6	958	973
Gujarat	466	567	727	1,072	1,044	581	283	225
Haryana	331	817	1,349	2,731	184	37	121	122
Himachal Pradesh	88	98	273	377	—	—	297	530
Jammu & Kashmir	255	349	176	154	—	—	274	378
Karnataka	963	1,480	363	257	1,729	1,180	150	394
Kerala	844	1,241	—	—	1	1	—	—
Madhya Pradesh	4,572	2,835	3,107	2,301	1,955	1,304	652	718
Maharashtra	1,483	2,003	1,188	938	6,439	4,710	62	113
Manipur	177	267	1	1	—	—	10	17
Meghalaya	109	132	2	2	—	—	16	11
Nagaland	67	69	—	—	—	—	11	9
Orissa	4,379	3,218	55	88	26	19	124	75
Punjab	674	1,741	2,579	6,272	4	2	550	629
Rajasthan	159	213	1,793	2,295	837	358	763	580
Tamil Nadu	2,350	5,000	2	1	771	700	27	29
Tripura	305	341	5	9	—	—	—	—
Uttar Pradesh	4,703	4,308	6,585	8,716	721	491	1,370	1,061
West Bengal	5,202	5,895	565	1,187	—	—	53	61
Andaman & Nicobar Islands	10	11	—	—	—	—	—	—
Arunachal Pradesh	71	63	—	—	—	—	19	22
Dadra & Nagar Haveli	9	15	—	—	1	—	—	—
Delhi	1	1	61	125	7	2	—	—
Goa, Daman & Diu	54	89	—	—	—	—	—	—
Mizoram	50	39	—	—	—	—	7	5
Pondicherry	29	64	—	—	—	—	—	—
ALL-INDIA (TOTAL)	38,606	42,787	20,863	29,082	15.778	10,396	6,054	6,257

States/Union Territories	Bajra		Ragi		Millets		Barley	
	Area	Production	Area	Production	Area	Production	Area	Production
Andhra Pradesh	562	247	318	290	758	269	—	—
Assam	—	—	—	—	7	4	—	—
Bihar	20	7	189	96	185	64	149	89
Gujarat	1,563	1,263	49	35	121	93	7	4
Haryana	959	550	—	—	—	—	105	128
Himachal Pradesh	—	—	12	9	26	18	38	45
Jammu & Kashmir	15	9	—	—	19	15	10	7
Karnataka	421	243	914	726	284	115	—	—
Kerala	—	—	3	3	4	3	—	—
Madhya Pradesh	195	122	18	3	1,633	289	177	135
Maharashtra	1,767	680	220	175	214	93	9	7
Manipur	—	—	—	—	—	—	—	—
Meghalaya	—	—	—	—	2	2	—	—
Nagaland	—	—	—	—	20	14	—	—
Orissa	3	2	254	137	204	55	—	—
Punjab	157	145	—	—	—	—	64	77
Rajasthan	3,009	1,321	—	—	69	25	593	689
Tamil Nadu	417	359	310	475	431	308	—	—
Tripura	—	—	—	—	—	—	—	—
Uttar Pradesh	1,028	770	212	201	419	247	1,015	[illegible]
West Bengal	—	—	19	14	15	12	48	41
Andaman & Nicobar Islands	—	—	—	—	—	—	—	—
Arunachal Pradesh	—	—	—	—	15	9	—	—
Dadra & Nagar Haveli	—	—	3	3	1	—	—	—
Delhi	11	4	—	—	—	—	1	—
Goa, Daman & Diu	—	—	6	5	—	—	—	—
Mizoram	—	—	—	—	—	—	—	—
Pondicherry	2	4	2	4	—	—	—	—
ALL-INDIA (TOTAL)	10,730	5,728	2,531	2,178	4,431	1,637	2,217	[illegible]

OTHER PRINCIPAL CROPS

(Area : Thousand hectares ; Production : Thousand tonnes)

States/Union Territories	Cotton		Tobacco		Potato		Sugarcane	Cotton
	Area	Production	Area	Production	Area	Production	Area	Area
	1976–77		1976–77		1976–77		1977–78	1977–78
Andhra Pradesh ..	281	250	188	133	—	—	135	144
Assam	4	2	7	5	30	145	42	4
Bihar	1	3	16	13	147	1,341	126	—
Gujarat	1,726	1,630	99	21	7	207	50	1,539
Haryana	243	476	—	—	10	187	175	317
Himachal Pradesh ..	1	1	—	—	14	84	4	1
Jammu & Kashmir ..	1	1	—	—	2	7	1	1
Karnataka	759	460	37	27	8	76	106	45
Kerala	7	10	1	1	—	—	9	8
Madhya Pradesh ..	633	288	3	1	19	173	78	615
Maharashtra	1,219	833	12	7	10	48	284	2,453
Manipur	—	—	—	—	2	7	—	—
Meghalaya	6	6	—	—	18	81	—	6
Orissa	4	5	15	10	7	46	46	5
Punjab	557	1,138	—	—	27	580	117	581
Rajasthan	289	348	9	5	2	5	45	303
Tamil Nadu	238	309	14	20	13	136	44	40
Tripura	2	2	1	—	3	29	2	2
Uttar Pradesh	27	16	12	10	195	2,455	1,478	31
West Bengal	—	—	15	15	115	1,657	30	—
Delhi	—	—	—	—	—	2	—	—
Mizoram	1	1	1	—	—	—	—	—
Pondicherry	1	3	—	—	—	—	—	—
ALL-INDIA	6,901	5,781	432	414	634	7,287	2,775	6,095

ALL-INDIA FINAL ESTIMATES OF SPICES DURING 1976-77

(Area : '000 hectares ; Production : '000 tonnes)

States Union Territories	Black Pepper		Ginger		Chillies		Turmeric	
	Area	Prod.	Area	Prod.	Area	Prod.	Area	Prod.
Andhra Pradesh ..	—	—	1·20	1·10	129·5	56·6	14·1	41·1
Assam	—	—	—	—	10·4	6·2	6·1	3·6
Bihar	—	—	0·54	0·69	14·1	15·1	5·2	10·4
Gujarat	—	—	0·36	0·28	13·2	8·6	—	—
Haryana	—	—	0·01	0·02	16·1	16·2	—	—
Himachal Pradesh ..	—	—	2·11	1·22	0·6	0·1	—	—
Jammu & Kashmir	—	—	—	—	1·2	1·3	—	—
Karnataka	3·35	0·93	1·12	1·85	92·8	24·0	1·2	4·0
Kerala	110·58	30·60	12·02	27·71	3·0	2·7	2·5	2·4
Madhya Pradesh ..	—	—	1·27	1·53	43·6	7·1	0·4	0·3
Maharashtra.. ..	—	—	0·71	0·62	148·0	70·2	9·8	13·7
Manipur	—	—	0·31	0·62	2·5	1·5	—	—
Meghalaya	—	—	—	—	1·2	0·8	1·3	1·2
Nagaland	—	—	0·28	0·25	1·4	0·9	—	—
Orissa	—	—	2·51	2·55	52·2	23·6	16·5	10·1
Punjab	—	—	—	—	29·9	23·5	—	—
Rajasthan	—	—	0·09	0·12	49·4	20·1	0·2	0·2
Tamil Nadu ..	0·24	0·04	1·12	0·98	81·0	110·6	9·0	32·6
Tripura	—	—	0·38	0·51	1·0	0·4	0·8	1·0
Uttar Pradesh ..	—	—	—	—	20·1	7·1	0·3	0·4
West Bengal ..	—	—	1·85	3·68	17·7	14·7	—	—
Delhi	—	—	—	—	0·2	0·2	—	—
Pondicherry ..	0·01	0·01	—	—	0·2	0·3	—	—
Mizoram	—	—	0·95	0·82	1·6	0·6	0·1	0·1
ALL INDIA ..	114·18	31·58	26·83	43·55	730·9	412·3	67·5	121·1

Source: Directorate of Economics & Statistics, New Delhi.

and store foodgrains and later distribute them as required. (For details see chapter on " Government Corporations ".)

Canning Centres : Twenty-three community canning and preservation centres were under operation for popularising vegetable and fruit preservation. The units organise demonstrations, lectures and film shows on techniques of preservation and canning. 15 more are to be opened before the end of the Fifth Plan in 1979.

Community Canning and Preservation Centres in major cities are at : 1. 108, Magadi Chord Rd., Bangalore 560040 ; 2. Abhyudaya Nagar No. 1, G. D. Ambedkar Marg, Bombay 400033 ; 3. 107, B, BI ' F ' New Alipore, Calcutta 700069 ; 4. 2-2-2-University Rd., Hyderabad 500007 ; 5. Food & Nutrition Board, Shastri Bhavan, 35, Haddows Rd., Madras 600006 ; 6. 35, Raj Park, New Delhi 110060 ; 7. D26, C. C. Colony, New Delhi 110007.

Fruit : Total area under fruit production is 1·80 million hectares and the production exceeds 10·00 million tonnes.

Exports of fresh fruits and vegetables together amounted to Rs. 59·1 million in 1975–76 against only Rs. 17·9 million in 1974–75.

Tractors : There are about 200,000 tractors in the country. Sixteen factories have been licensed with a total manufacturing capacity of 135,000 tractors per annum.

Fertilisers : (See Chapter on " Fertiliser Industry ".)

Agricultural Education : Refer to chapter on Education.

Agricultural Research: The Indian Council of Agricultural Research is the apex organisation for sponsoring, coordinating and directing agricultural research and education in the country. The Council now has 29 research institutes under it.

Soil Conservation : All-India Soil and Land Use Survey Organisation, Pusa Rd., New Delhi 11001 carries out soil survey in selected river valley projects a priority watersheds for soil conservation works. S centrally sponsored schemes are also under operation the catchment of major river valley projects.

Research Centres : Eight research-cum-training centre for soil conservation under the jurisdiction of Indu Council of Agricultural Research have been establ at the following places :—

1. Ootacamund (Tamil Nadu) for erosion co the Nilgiri and other hills ; 2. Bellary (Mysore) for conservation studies in black soils ; 3. Kotah (with sub-centre at Agra for erosion control in the C and Jumna ravines ; 4. Dehra Dun (U.P.) for studyin problems of afforestation in the Sivalik hills with the sub station at Chandigarh for training *chos* (hill torrents 5. Vasad (in the Gujarat tract) for erosion control in ravines along rivers in Gujarat ; 6. Chandigarh (oute Sivaliks) ; 7. Agra (Yamuna ravines) ; 8. Ibrahimpat (Andhra) for tackling red soil problems.

The centres train gazetted officers and assistants t man the soil and water conservation projects.

Minor Irrigation : Minor irrigation includes relating to small storage tanks, river pumping pro tube-wells, filter points, dug wells, small flood protec embankments and drainage schemes. The **Central Ground Water Board,** Jamnagar House, New Del 110011 is fully responsible for groundwater explor in the country and most of the States have set up Gro Water Organisations for development of ground resources for agricultural purposes. (For further details see Chapter on " Irrigation and Power Projects.)

CLASSIFICATION OF AREA AND IRRIGATED AREA IN INDIA, 1974-75 (PROVISIONAL)
(AS ON 16-7-1977)

(Million he

Heading (1)	1970–71 (2)	1971–72 (3)	1972–73 (4)	1973–74 (5)	1974–75 (6)
I. GEOGRAPHICAL AREA	—	328·78	—	—	—
II. REPORTING AREA FOR LAND UTILISATION STATISTICS (1 to 5)	303·76	304·07	304·02	304·10	304·14
(1) Forests	63·92	63·69	65·41	65·66	[illegible]
(2) Not available for cultivation (a + b) ..	44·64	44·70	41·82	41·17	[illegible]
(a) Land put to non-agricultural uses ..	16·48	16·97	16·66	16·77	[illegible]
(b) Barren and unculturable land	28·16	27·73	25·16	24·40	[illegible]
(3) Other uncultivated land excluding fallow land (a + b + c)	35·07	34·70	34·66	34·17	[illegible]
(a) Permanent pastures and other grazing lands	13·26	12·96	12·71	12·82	[illegible]
(b) Land under miscellaneous tree crops and groves not included in net area sown	4·30	4·28	4·54	4·08	[illegible]
(c) Culturable waste	17·50	17·46	17·41	17·27	[illegible]
(4) Fallow lands (a + b)	19·36	20·76	24·53	20·35	[illegible]
(a) Fallow lands other than current fallows	8·76	8·44	9·29	8·81	[illegible]
(b) Current fallows	10·60	12·32	15·24	11·54	[illegible]
(5) Net area sown (6 — 7) ..	[illegible]	140·22	137·60	142·75	[illegible]
(6) Total cropped area ..	165·79	165·15	162·14	169·54	[illegible]
(7) Area sown more than once	24·91	24·93	24·54	26·79	[illegible]
III. NET IRRIGATED AREA	31·10	31·55	31·84	32·49	[illegible]
IV. GROSS IRRIGATED AREA	38·20	[illegible]	[illegible]	[illegible]	[illegible]

STATE-WISE ESTIMATES OF PRODUCTION OF FOODGRAINS : 1976–77

(Thousand Tonnes)

State	Total Cereals	Total Pulses	Total Foodgrains
Andhra Pradesh	7,154·8	362·4	7,157·2
Assam	2,218·5	37·2	2,255·7
Bihar	8,470·6	697·1	9,167·7
Gujarat	3,841·0	187·7	4,028·7
Haryana	4,385·0	874·3	5,259·3
Himachal Pradesh	1,170·1	36·8	1,206·9
Jammu & Kashmir	913·3	21·6	934·9
Karnataka	4,396·1	286·2	4,682·3
Kerala	1,247·6	14·8	1,262·4
Madhya Pradesh	7,709·1	1,858·8	9,567·9
Maharashtra	8,719·4	977·1	9,696·5
Manipur	284·9	2·3	287·2
Meghalaya	147·3	0·9	148·2
Nagaland	91·4	2·8	94·2
Orissa	3,585·6	349·2	3,934·8
Punjab	8,866·5	332·9	9,199·4
Rajasthan	5,481·7	1,999·1	7,480·8
Tamil Nadu	6,873·9	156·0	7,029·9
Tripura	350·2	1·7	351·9
Uttar Pradesh	16,866·0	2,581·4	19,447·4
West Bengal	7,210·8	417·5	7,628·3
All India	100,361·4	11,208·1	111,569·5

Land Reforms : Legislative provisions have been made in most states conferring ownership rights on cultivating tenants, protecting tenants against wilful ejectment and regulation of rent payable. Consolidation of holdings has been accorded high priority. More than 44 million hectares have already been consolidated.

Under the revised ceiling laws of the 1·4 million cases 1·2 million have been scrutinised and disposed of. About 1·65 million hectares was declared surplus of which 890,000 hectares had been taken by the states and about 550,000 hectares had been distributed among 930,000 beneficiaries.

Earlier about 810,000 hectares had been distributed among 1·06 million families.

To provide financial support to the beneficiaries of surplus lands the Central Government allotted Rs. 116·50 million to the states.

Average size of Land Holdings : The average size of a farm in India is 2·63 hectares. The State-wise average is as follows : Andhra Pradesh 2·87 hectares ; Assam 1·46 hectares ; Bihar 1·53 hectares ; Gujarat 4·49 hectares ; Jammu & Kashmir 1·43 hectares ; Kerala 0·75 hectare ; Madhya Pradesh 3·99 hectares ; Tamil Nadu 1·49 hectares; Maharashtra 4·65 hectares ; Karnataka 4·11 hectares ; Orissa 1·98 hectares ; Punjab 3·89 hectares ; Rajasthan 5·5 hectares ; Uttar Pradesh 1·78 hectares ; and West Bengal 1·56 hectares.

Out of a total 50 million rural households possessing operational holdings, 35 per cent hold on an average less than 0·20 hectare of land each.

ANIMAL HUSBANDRY

INDIA has the largest cattle, buffalo and goat population. According to the 1972 census, there are about 179 million cattle, 58 million buffaloes and 68 million goats in the country. About one-sixth of the cattle, about half of the buffalo and one-fifth of the goat population in the world are in India. Animal husbandry plays an important role in the national life and accounts for about 10 per cent of the national income. In particular, the contribution of the cattle and buffalo to the economy is considerable. They are the main source of draught power in agricultural operations and rural transportation ; they provide essential foods like milk and meat as also large quantities of animal by-products like hides, bones, blood and guts, as well as valuable original manure. Meat and meat products alone earn about Rs. 70 million by way of foreign exchange.

Census — The 12th quinquennial livestock census was due to be conducted in different States with April 15, 1977 as the reference date. But only a few States carried out the census as per schedule while others had to postpone it for a variety of reasons. Hence data in the consolidated form are available only for 1972, the year of the previous census.

The break-up for 1972 is : Cattle — 178·9 million ; sheep — 40·4 million ; goats — 68·0 million ; buffaloes — 57·9 million ; horses and ponies — 1·0 million ; pigs — 6·5 million ; camels — 1·1 million and other livestock 1·2 million. Poultry makes up an additional 136·8 million.

Meat Production : There are nearly 2,800 slaughter houses operating under local bodies; excepting a few, many of them lack even elementary facilities for hygienic production and handling of meat and for collection and utilisation of animal by-products. About 37·3 million sheep and goats, 1·5 million pigs and 1·4 million cattle and buffaloes are slaughtered annually in the organised slaughter houses. The percentage of the animals slaughtered to their respective population is: cattle: 0·9; buffaloes: 1·4; sheep: 32·5; goat: 36·8; pigs: 22·0; others: 6·4.

The yearly production of meat is around 720,000 tonnes consisting of 190,000 tonnes of beef and buffalo meat, 390,000 tonnes of mutton and goat meat, 50,000 tonnes of pig meat and 90,000 tonnes of poultry meat.

Modernisation of Slaughter Houses: For the establishment of modern slaughter houses, five corporations have been set up — Modern Meat Complex Ltd., Panaji (Goa); Animal Food Corp., Pvt. Ltd. (Bangalore); Modern Slaughter Houses Development Corp. (Hyderabad); West Bengal Processing Corp. Ltd., and Tamil Nadu Meat Industries Corpn. The modern abattoir set up at Deonar (Bombay), provides clean and wholesome meat and also caters to the needs of export market as regards buffalo meat.

Hide-Flaying and carcass utilisation: A model training-cum-production centre at Bakshi-ka-Talab, Lucknow established with financial and technical assistance from the Government of Netherlands and Food & Agriculture Organisation of the United Nations, where training is imparted in hide-flaying, tanning, carcass utilisation footwear making etc. The Animal By-products Plant, Kesarpalli, Andhra Pradesh is handling, in addition to fallen animals, other raw materials such as bone chips, fish waste etc. and converting them into sterilised bone-meal, fish-meal and meat-meal.

CATTLE: The best Indian cattle breeds are found in the Punjab, Rajasthan, Saurashtra, parts of Maharashtra, Tamil Nadu, Karnataka and Andhra Pradesh. In the eastern parts of the country and in the coastal areas, the animals are non-descript and are poor milk yielders. The Indian breeds of cattle are classified as milch breeds, draught breeds and general utility breeds.

Milch Breeds: Sahiwal, Gir, Red Sindhi and Deoni are some of the outstanding breeds of this group. The Sahiwal yields between 2,725 and 3,175 kgs. of milk in a lactation period of 300 to 325 days. The average yield of Gir is 1,675 kgs. The average milk yield of Sindhi and Deoni varies from 1,135 to 1,725 kgs.

Draught: Cows of these breeds are poor milk yielders but the bullocks are excellent draught animals. About 42 per cent of the cattle in the country are draught animals. The Amritmahals and Hallikar (Karnataka) are the well-known draught breeds of India. Other important breeds are Malvi (Madhya Pradesh), Nagori (Rajasthan), Kenketha and Ponwar (Uttar Pradesh), Bahaur (Bihar), Bargur, Kongayam (Tamil Nadu) and Khillari (Maharashtra).

General Utility Breeds: The cows are fairly good milk yielders and the bullocks are good for draught purposes. Hariana (Haryana and Delhi); Kankrej and Tharparker (Gujarat and Rajasthan); Ongole (Andhra Pradesh), etc., which give about 1,500 to 2,000 kgs. of milk in the lactation period are some of the well-known breeds of this type.

Cattle Breeding: The Intensive Cattle Development Projects (ICDPs) was formulated during the latter half of the Third Plan has now intensified its activities. In areas served by the Key Village Scheme for Cattle Development and ICDPs cross-breeding has been now introduced. With a view to intensifying cross-breeding work in selected ICDPs, four more frozen semen banks have been set-up in Amritsar, Gurgaon, Indore and Bangalore with Danish aid.

Development work has made further progress at the Central Cattle Breeding Farms at Suratgarh (Rajasthan) for Tharparkar breed, Ankleshwar (Gujarat) for Surti buffaloes and Chiplima (Orissa) for Red Sindhi breed. Three additional farms are being set up at Eichenkotli (Tamil Nadu), Banvasi (Andhra Pradesh) and Wadsa Dessaiganj (Maharashtra) with the assistance to be received under DANIDA project.

The **Central Frozen Semen Bank** at Hessarghatta continued to supply frozen semen to the neighbouring States for cross-breeding purposes. A number of frozen semen stations have been set-up recently in places like Bangalore, Bhopal, Gurgaon and Amritsar and many more are likely to come up in the near future. Large-scale use of frozen semen would go a long way in the successful adoption of cross breeding programmes.

Buffaloes: Buffalo is customarily classified into two types — the swamp and the river buffalo. The buffaloes in India are of the second type. There are seven breeds of Indian buffalo. It should, however, be noted that the breed classification of Indian livestock especially buffalo is not satisfactory. They are the Murrah of Haryana, the Jaffarabadi (Saurashtra region). Surti (Kaira, Anand and Nadiad districts) and Mehsana (Mehsana district) of Gujarat, Nagpuri of Maharashtra, Nili-Ravi of Punjab and Bhadawari of Uttar Pradesh. The average yield of milk in a single lactation period (which varies from 250–300 days) is 1,360–2,270 kgs. in the case of Murrah, 1,655 kgs. in the case of Surti, 1,360–1,825 kgs. in the case of Mehsana and 1,585 kgs. in the case of Nili-Ravi.

Sheep: According to the 1972 livestock statistics, India has 40 million sheep and ranks sixth among the countries of the world in sheep population. Most of the sheep are concentrated in the arid zones with low rainfall and poor agriculture where they form a major source of livelihood for the people. The productivity of most of the sheep-stock is low in terms of wool and mutton. The average annual yield of wool per sheep in India is only 700 grams as against 5–7 kilograms in the case of some of the exotic breed of sheep. As regards mutton, the average weight of sheep varies from 25 to 30 kgs. The exotic sheep weigh as much as 3 times this figure.

Wool: India produces over 34 million kgs. of wool annually with 36 per cent of this coming from Rajasthan alone. The bulk of the wool produced is coarse and is used largely in the manufacture of carpets, druggets and coarse blankets. (See also Woollen Industry.)

Breeding: Sheep development involves cross-breeding of indigenous sheep using imported strains of *merino* type sheep such as Rambouillett stavrovol, etc., for improving wool quality and quantity. It also aims at improving both mutton and wool quality by cross-breeding with imported dual purpose sheep like Corriedale. This cross-breeding programme was initiated in 1970 and is being continued. Over 5,000 exotic sheep have so far been imported and located in different States.

Five Centrally sponsored large sheep-breeding farms have been set-up at Mamidipally (Andhra Pradesh), Challakeri (Karnataka), Daksum (Jammu & Kashmir), Bhainsora (Uttar Pradesh) and Fatehpur (Rajasthan). Action has been initiated for the establishment of two more sheep-breeding farms — one at Shivpuri (Madhya Pradesh) and another at Chatra (Bihar) is proposed.

A largescale sheep shearing, wool grading and marketing programme has been undertaken in Rajasthan with the assistance of Food and Agricultural Organisation. Another significant development was the setting up of the Central Sheep and Wool Research Institute, in 1962.

Goats : Goats constitute an important source of animal protein and account for 35 per cent of the country's total meat production. Goats also account for about 3 per cent of the total milk production. They account for 35 per cent of meat production. Exports of goat skins, casings and hair earn substantial foreign exchange.

Among the important breeds are Bakarwah, Assam Hill, Chamba, Gaddi and Gegu in the Northern temperate region, Beetah, Jamnapari, Kutchi, Marwari, Mehsana, Sirohi and Zalwadi in the North-Western region and Osmanabadi and Mahabari/Tellicherry in the Peninsular region.

POULTRY: There are only 26 chickens per 100 persons in India as against 540 in Denmark and 373 in Canada. The annual laying capacity of an Indian hen is about 60 small eggs in a year as against 180 large eggs of the American (exotic) breeds like White Leghorn.

Poultry production has made rapid strides in the last decade. The annual egg production increased from 2,500 million eggs in 1971 to about 10,000 million eggs in 1977. The production of poultry meat through *broiler* industry has touched a level of 17 million in 1977-78, compared to just 4 million in 1971. However, the per capita availability is very low when reviewed against world standards. The poultry industry has become nearly self-sufficient in respect of modern poultry equipment which has, now, found even export markets. However, the availability of eggs in India is estimated at only 12 per person per year as against 295 in U.S.A., 282 in Canada and 249 in West Germany. The annual per capita availability of poultry meat too is low, being estimated at 131 grams in India as compared with 13·18 kgs. in U.S.A. and 2·47 kgs. in other European countries.

Piggery : Pig is one of the most efficient feed converting animals among domesticated stock, and in India an important source of protein rich meat. The total pork production is around 53,000 tonnes and accounts for 7·4 per cent of meat production in India. In the Second and later Plans schemes were drawn up for the setting up of bacon factories, regional pig breeding stations, pig breeding farms/units and piggery development blocks. By the end of the Fourth Plan 8 bacon factories were set-up in different States — Andhra Pradesh, Maharashtra, West Bengal, Uttar Pradesh, Kerala, Bihar, Punjab and Rajasthan — but none of them is working at even half of their installed capacity. Special efforts are made to promote piggery in North-East States.

The Centre has drawn up a comprehensive piggery development programme with the help of Danish International Developmental Agency. Under this scheme, a regional pig breeding station will be set up at Shillong with seven sub-units for all other North-Eastern States.

Plan Targets : Against a base level production of milk of 23·2 million tonnes in 1973-74, the latest Plan document (1978-83) expects the production to reach 35·5 million tonnes by 1982-83. The target for egg production is 16,000 million, and wool 38 million kgs. (greasy). As against an outlay of Rs. 4,380 million for the Fifth Plan, the outlay for the Five-year Plan (1978-83) according to the draft is about Rs. 8,250 million.

FISHERIES

EXTENT of Resources : India has a long coast line of 6,535 kms. and an exclusive economic zone of 2 million sq. km. which offer large stocks of the sardine group, the mackerel, the tuna and other scombroids, catfishes, the group of sharks and rays, Bombay duck, ribbonfishes, prawns, squids and cuttlefishes, the pomfrets, solefish, the carangids, the perches, polynemids, sciaenids etc.

The country has an inland cultivable water area of about 1·6 million hectares to raise indigenous and exotic carps, air-breathing fishes, hilsa, trouts etc. It also has a brackish water spread of about 2·6 million hectares, a portion of which could be brought under culture for raising prawns, mullet, milk fish, pearl spot etc. There are also good possibilities of producing shell-fishes, fin-fishes and algae through mariculture in the coastal belt.

India occupies seventh place in fisheries production in the world. Marine fisheries account for about 64 per cent of total production with 36 per cent contributed by inland fisheries. The present **per capita consumption** of fish is only 2·8 kg. a year against the desired consumption level of 31 kg. as recommended by the nutrition advisory committee on human nutrition.

A ten-fold increase in fish production is considered necessary to meet adequately the increasing demand for fish in the country.

Growth since Independence : From an estimated figure of 0·7 million tonnes in 1947, the catch increased to 2·53 million tonnes in 1977 of which 1·64 million tonnes were marine fish.

Development Programmes : At the end of 1977, there were about 13,352 mechanised fishing boats in operation as against only 13 at the commencement of the First Plan. Trawling deserve special mention, a method of fishing, which was practically unknown at the time of Independence, is now most popular.

In order to give a fillip to deep sea fishing, it is proposed to introduce 200 deep sea fishing vessels. 89 such vessels are already in operation as against only 10 in 1950–51. Arrangements have been made for the import of more than 100 offshore/deep sea fishing vessels and measures have been taken for the construction of such vessels at the indigenous shipyards.

Inland Fisheries : Fifty Fish Farmer's Development Agency Projects have been taken up in different States for augmenting fish production through intensive fish culture practices such as bund breeding and induced breeding in small water areas like ponds and lakes. These practices will also help in spawn collection and fish seed supplies. Attention will also be paid to the creation of additional nursery areas. Spawn production and fingerlings production were 2,109 million and 570 million respectively during 1975-76 and were 2,714 million and 698 million respectively during 1976-77. The total nursery area available for spawn rearing during 1975-76 was estimated at 1,016 hectares and for 1976-77 it was estimated at 1,135 hectares.

Of the 1·6 million hectares of ponds and tanks only 0·6 million hectares are now being utilised for the production of fish.

Production 1976-77 (Provisional) ('000 tonnes)

	Inland	Marine	Total
Andhra Pradesh	100·00	160·00	260·00
Assam	42·00	—	42·00
Bihar	68·00	—	68·00
Gujarat	20·00	221·00	241·00
Haryana	1·55	—	1·55
Himachal Pradesh ..	1·00	—	1·00
Jammu & Kashmir ..	7·50	—	7·50
Karnataka	70·00	90·00	160·00
Kerala	24·00	500·00	524·00
Madhya Pradesh ..	10·00	—	10·00
Maharashtra	19·00	275·00	294·00
Manipur	2·22	—	2·22
Meghalaya	0·35	—	0·35
Nagaland	0·18	—	0·18
Orissa	27·00	25·00	52·00
Punjab	2·40	—	2·40
Rajasthan	10·50	—	10·50
Tamil Nadu	165·00	300·00	465·00
Tripura	4·65	—	4·65
Uttar Pradesh ..	28·50	—	28·50
West Bengal	275·00	15·00	290·00
Sikkim	—	—	—
Total — States ..	878·85	1,586·00	2,464·85

Union Territories ('000 tonnes

	Inland	Marine	Total
Andaman & Nicobar..	—	1·35	1·35
Arunachal Pradesh ..	0·20	—	0·20
Chandigarh	0·30	—	0·30
Delhi	0·40	—	0·40
Goa, Daman & Diu ..	1·20	31·00	32·20
Lakshadweep	—	3·32	3·32
Pondicherry	0·63	22·50	23·13
Mizoram	0·30	—	0·30
Total : All India ..	881·88	1,644·17	2,526·05

Job Opportunity : All the schemes of the fisheries sector taken together will directly generate an additional employment potential of 400,000 persons including skilled and semi-skilled workers. In addition to this, employment potential will also be generated in the ancillary industry and for marketing and transportation of fish. This is estimated to go up to 600,000 in the near future.

Research : A multi-pronged research and [illegible] effort is under way to double the present annual [illegible] in the next few years.

The research activities are being carried on by Central Marine Fisheries Research Institute and the C Institute of Fisheries Technology, both located at Coc and the Central Inland Fisheries Research Insti Barrackpore. These Institutes have their subor establishments also. The National Institute of O graphy, the Central Institute of Fisheries Educat Pelagic Fisheries Project, the Zoological Survey of In some of the agricultural universities and conv universities and some fisheries departments of the S Governments also carry out research in different dis of fishery science.

Exports : Against an export of 54,463 tonnes in 197 valued at Rs. 1,245 million, the export of marine prod during 1976-77 was valued at Rs. 1,891 million.

For augmenting the exports of sea foods, the Gover ment of India has set up a Marine Products Export velopment Authority at Eranakulam, Cochin 682016

Main Buyers : These exports are directed to the sophi cated markets of America, Europe, Japan and Austra

Imports : There were no imports of fish during the yea 1976 and 1977.

Rolling Plan : In the Plan for 1978-83, the prim objectives would be : (*i*) to step up the fish producti (*ii*) to organise the inland fish production based on i dividual family basis and on high labour, low-investme technology so as to improve the socio-economic conditi (*iii*) to organise intensive marine fishing survey a promote exploitation, distributed equitably among t different sectors and (*iv*) to improve and diversify t processing and marketing facilities. The Planning Comm sion has envisaged a target of 3·4 million tonnes for t five year period. The outlay for 1978-79 for Central, Ce trally sponsored and State schemes and research is ab Rs. 840 million.

Fishing Harbours : Besides limited facilities for land and berthing of fishing boats already available at abo 75 centres, medium sized fishing harbours have been com pleted at four centres and work on large sized fish harbours is in progress at Cochin, Madras, Bombay a Calcutta. The first stage harbour works at Visakhapatna have been completed.

One of the major projects proposed in this connection a Rs. 220 million programme to build fishing harbours Gujarat and Andhra Pradesh with World Bank assistanc

EDUCATION

Number of Universities rose from 47 in 1960 to 115 (105 universities and 10 institutions deemed to be universities) as on June 1978. **Number of Colleges** increased from 1,542 in 1960–61 to 4,569 in 1976-77.

According to the Union Education Ministry's annual report for 1977-78, the growth rate in University enrolment, excluding PUC/Intermediate/Pre-Professional, which was 14·5 per cent in 1969-70 over 1968-69, had fallen to 3 per cent in 1973–74, to 5·9 per cent in 1974–75, to 2·5 per cent in 1975–76 and to 0·2 per cent in 1976–77. There were 2·432 million students in the universities and Colleges in 1976-77.

Number of Illiterates in 1971 was 386 million as against 388 million in 1961. However, the percentage of literacy according to 1971 census rose to 29 per cent from 24 per cent in 1961. Adult illiterates were estimated to be ab 100 million by 1977. (See also Chapter on Po

Type of Institutions (1976) : Primary Schools: [illegible]; Middle Schools: 105,447; High & Higher Se Schools : 47,141 ; Arts & Science Colleges : [illegible] ; Engi neering & Technology Colleges : 108 ; Medical C 215 ; Teacher Training Institutions : 1,511 ; U 115 ; Boards of Secondary & Intermediate Education : [illegible]

Teachers : Primary Schools : 1,242,911 ; Middle Sc 779,495 ; High Schools : 716,964. Percentage of trained teachers in the primary, middle and high, higher secondary respectively was 83·0 ; 94·6 and 82·3.

Free Education : Education in classes I-V is free in Government schools and in schools run by local bodie t is also free in classes VI-VIII in all States except for oys in Orissa, Uttar Pradesh and West Bengal.

All the States except Manipur, Meghalaya, Nagaland, rissa, Sikkim and Tripura have enacted legislation for ompulsory education. As for the Union Territories, such egislation is available in Delhi, Andaman & Nicobar slands and Chandigarh.

chool Enrolment since Independence (In million)

	1950-51	1976-77	1978-79 Target
ge group 6–11			
nrolment : Classes I — V ..	19·155	67·530	77·100
nrolment as percentage of age group population	4·26	8·09	9·57
ge group 11 — 14			
nrolment : Classes VI — VIII	3·120	17·008	21·100
nrolment as percentage of age group population	1·27	3·70	4·61

Enrolment (1976) to the engineering and technical education at the degree level was 22,492 and at the diploma level 44,000.

Expenditure on Education : Fifth Five-Year Plan (1974-79) final document says the total expenditure on education is estimated to rise from Rs. 14,500 million in 1974-75 to about Rs. 22,870 million in 1976-77*. The share of primary education had been cut down from Rs. 10,300 million to Rs. 7,720 million. Total expenditure on education, inclusive of Plan and non-Plan, during the Fifth Plan period is expected to be about Rs. 90,000 million, next only to that on Defence.

Budget estimates for the education departments of the States and the Centre was Rs. 21,750 million for 1977-78.

Per Capita Expenditure : For rural areas Rs. 3; for urban areas Rs. 16·32 (1978).

SUBJECTS OF STUDY

(Derived with permission from ' Directory to Subjects of Study at Indian Universities' published in the annual **Commonwealth Universities Yearbook** by the Association of Commonwealth Universities, London and **University Grants Commission,** New Delhi.)

This directory contains a list of selected subjects which may be studied at universities in India, some in the departments or constituent colleges of universities themselves, some in colleges affiliated to universities, and others in both. The list is not exhaustive but it does cover most of the main subjects in which facilities for study or research are available. Many of the universities which provide ourses for bachelor's or master's degrees in a subject also provide facilities for research in aspects of it which ay lead to a doctorate.

Subjects marked † may, depending on the university, ither (*a*) form a greater or lesser part of the course for a achelor's degree, or (*b*) be studied for a master's degree, r (*c*) both.

Universities marked* in the article provide instructions upto the post-graduate level; 'm' and 'd' under the edicine list indicate Master's Degree (including MD) and Government Diploma. 'Tech.' stands for Technology and " Engg. ' for Engineering.

Accounting and taxes: Shivaji.

Adult education: *Diploma :* Rajasthan.

Aeronautical Engg.: *Bachelor's :* I.I.T. (Kanpur, Kharagpur, Madras), Punjab. *Master's :* I.I.T. Bombay, Kanpur, Madras, Institute of Science.

Agricultural Engg. : *Bachelor's :* Allahabad, Bhagalpur (with soil conservation), Haryana Agri., G. B. Pant Univ. of Agri. and Tech.,* I.I.T. Kharagpur, J. L. Nehru Krishi Vish., Punjab Agri. (also Master's), Punjabrao Krishi, Udaipur. *Master's :* (Agri. Engg.) — Allahabad, Punjab Agri. *Diploma :* University of Agri. Sciences, Hebbal.

Agriculture: *Bachelor's :* Agra.,* Allahabad,* Andhra Pradesh Agri.,* Annamalai, Assam Agri.,* Banaras,* Bhagalpur,* Bihar,* Calcutta,* G. B. Pant Univ. of Agri. and Tech.* (Previously U.P. Agri.), Gorakhpur,* Gujarat,* Haryana Agri.,* Himachal Pradesh,* J. L. Nehru Krishi,* Kalyani,* Kanpur,* Kerala,* Kurukshetra, Madras,* Madurai,* Mahatma Phule Krishi, Meerut,* Orissa Univ. of Agri. and Tech.,* Punjab,* Punjab Agri.,* Punjabrao Krishi,* Rajasthan, Ranchi,* Sardar Patel,* Saurashtra, South Gujarat,* Tamil Nadu Agri*., Udaipur,* Univ. of Agri. Sciences,* Visva-Bharati. *Master's :* Universities marked*. *Diploma :* Assam Agri.

Agricultural Marketing: Shivaji.

Anaesthesiology/Anaesthetics: Agra d, Aligarh d, Allahabad d, Andhra d, Banaras dm, Bangalore d, Baroda dm, Bombay m, Calcutta d, Delhi dm, Dibrugarh dm, Gujarat dm, Kanpur d, Karnataka dm, Kerala d, Lucknow d, Madras dm, Madurai d, Marathwada d, Nagpur d, Osmania d, Patna d, Post-graduate Research Inst. in Medicine m, Poona dm, Punjab dm, Punjabi d, Rajasthan dm, Sambalpur d, Shivaji d, Utkal d.

Anatomy: Agra m, Andhra m, Banaras m, Baroda m, Bombay m, Calcutta m, Delhi m, Dibrugarh m, Gujarat m, Indore m, Karnataka m, Kerala m, Madras m, Marathwada m, Mysore m, Osmania m, Post-graduate Research Inst. in Medicine m, Punjab m, Rajasthan m, Sambalpur m, Shivaji m, Srivenkateswara m.

Ancient Indian History, Culture and Archaeology/Indology†: Agra, Allahabad, Andhra, Banaras, Baroda, Bombay, Calcutta, Gorakhpur, Gujarat, Jabalpur, Karnataka, Kurukshetra, Lucknow, Madras, Marathwada, Mysore, Nagpur, Osmania, Punjab, Patna, Poona, Rajasthan, Ravi Shankar, Saugar, Shivaji, Vikram, Visva-Bharati. *Diploma/Certificate :* Allahabad (Archaeology), Banaras, Mysore.

Animal Husbandry : See ' Dairy Science ' in this list.

Anthropology†: Allahabad, Andhra, Bombay, Burdwan, Calcutta, Delhi, Dibrugarh, Gauhati, Gujarat Vidyapith (Social Anthropology), Karnataka, Lucknow, Madras, Punjab, Poona, Punjabi (Social Anthropology), Ranchi, Ravi Shankar, Saugar, Sri Venkateswara, Utkal. *Diploma/Certificate :* Calcutta (applied anthropology), Madras, Ravi Shankar (applied anthropology and tribal welfare).

Applied Chemistry: *Master's :* Calcutta, Indore, Jabalpur, Kerala.

Applied Geology: *Master's :* Andhra, Banaras, Baroda, Dibrugarh, Jadavpur, Kharagpur, Nagpur, Osmania, Rajasthan, Ravi Shankar, Roorkee, Saugar.

Applied Physics: *Master's :* Andhra, Calcutta, Indore, Jabalpur.

Applied Sociology : Kashi Vidyapith.

Applied Statistics : *Master's :* South Gujarat.

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* Actual expenditure on education during 1976 was Rs. 19,633 million.

Arabic†: Agra, Aligarh, Allahabad, Banaras, Bhopal, Bihar, Bombay (also diploma and certificate), Burdwan, Calcutta, Delhi, Gauhati, Gorakhpur, Gujarat, Jamia Millia, Jammu (certificate), Kerala, Lucknow, Madras, Nagpur, Osmania, Patna, Poona, Punjab, Rajasthan, Shivaji, Sri Venkateswara, Utkal, Visva-Bharati.

Arabic Culture & Civilization : See 'Islamic Studies' in this list.

Archaeology : See 'Ancient Indian History' in this list.

Architecture: *Bachelor's :* Bangalore, Baroda, Bhopal, Bombay, Calcutta, Delhi, Indian Inst. of Tech., Kharagpur, Jadavpur, Kerala, Madras, Nagpur, Osmania, Punjab, Roorkee. *Master's :* Banaras (art and architecture), Baroda (town and country planning), Calcutta, Roorkee. *Diploma :* Banaras (arts and architecture), Gujarat.

Architectural Engg. : *Bachelor's :* Roorkee.

Assamese†: Burdwan, Dibrugarh, Gauhati.

Astronomy†: Lucknow, Osmania.

Audiology and Speech Therapy: *Bachelor's:* Bombay.

Automobile Engg. *Master's :* Bombay.

Aviation Medicine: Bangalore d.

Bacteriology†: Andhra, Bihar, Bombay, Delhi, Gujarat, Kerala, Madras, Mysore, Osmania (MD), Poona, Rajasthan. *Diploma :* Punjab, Rajasthan.

Banking and Finance : Rajasthan.

Banking Bank Administration: Aligarh, Baroda, Gujarat.

Basic Medical Sciences: Calcutta d.

Bengali†: Allahabad, Banaras, Burdwan, Calcutta, Delhi, Dibrugarh, Gauhati, Gujarat, Jadavpur, Lucknow, North Bengal, Punjab, Patna, Punjabi, Rabindra Bharati, Ranchi, Utkal, Visva-Bharati. *Diploma/Certificate :* Allahabad, Banaras, Delhi, Lucknow, Visva-Bharati.

Biochemistry†: Aligarh, Allahabad, Andhra, Banaras, Baroda, Bombay, Calcutta, Delhi, Dibrugarh (MD), J. L. Nehru Krishi, Kerala, Lucknow, Madras, Mysore, Nagpur, Osmania, Post-graduate Research Inst. in Medicine, Chandigarh, Punjab, Punjab Agri. Rajasthan, Sambalpur (MD). *Diploma :* Indian Inst. of Science, Bangalore.

Biophysics†: Banaras (MD), Bombay, Madras, Post-graduate Research Inst. in Medicine, Chandigarh, Punjab, Punjabi.

Botany†: Agra, Aligarh, Allahabad, Andhra, Annamalai, A. P. Singh, Banaras, Bangalore, Baroda, Berhampur, Bhagalpur, Bhopal, Bihar, Birla Inst. of Tech. and Science, Pilani, Bombay, Burdwan, Calcutta, Delhi, Dibrugarh, Ganhati, G. B. Pant Univ. of Agri. and Tech., Gorakhpur, Gujarat, Haryana Agri., Indore, Jabalpur, Jammu, Jiwaji, Jodhpur, Kalyani, Kanpur, Karnataka, Kerala, Kurukshetra, Lucknow, Madras, Madurai, Magadh, Marathwada, Meerut, Mysore, Nagpur, North Bengal, Osmania, Patna, Poona, Punjab, Punjabi, Rajasthan, Ranchi, Ravi Shankar, Sambalpur, Sardar Patel, Saugar, Saurashtra, Shivaji, South Gujarat, Sri Venkateswara, Udaipur, Utkal, Vikram, Visva-Bharati.

Buddhist Studies: *Master's :* Delhi.

Business Administration: *Bachelor's :* Birla Inst. of Tech. and Science, Pilani, Madurai, Rajasthan. *Master's :* Allahabad, Andhra, Birla Inst. of Tech. and Science, Pilani, Cochin, Delhi, Himachal Pradesh, Jodhpur, Lucknow, Osmania, Poona, Punjab, Punjab Agri. (agri. business administration), Punjabi, Rajasthan, Shivaji, Udaipur.

Cambodian: Banaras.

Cardiology: Bombay m, Calcutta d, Madras m, P. G. Research Inst. in Medicine m.

Cardiothoracic Surgery: P. G. Research Inst. in Medicine M.Ch.

Cartography: *Diploma :* Nagpur, Osmania, Punjab.

Ceramics Tech.: *Bachelor's :* Calcutta, Osmania. *Master's :* Banaras, Osmania.

Chemistry†: Guru Nanak, Himachal Pradesh : I.I.T (Bombay, Delhi, Kanpur, Kharagpur, Madras), Jadavpur, Punjab Agri., Roorkee and all universities listed above under 'Botany'.

Child Health Paediatrics: Agra d, Aligarh d, Allahabad d, Andhra d m, Banaras d m, Bangalore d, Baroda d m, Bombay m, Calcutta d, Delhi d m, Dibrugarh d m, Gujarat d m, Indore d m, Jiwaji d, Kanpur d, Karnataka d, Kerala d m, Lucknow d, Madras d m, Madurai d m, (M. Ch.), Marathwada d m, Nagpur d, Osmania d m, Patna d, Pune d, Punjab d, Punjabi d, Rajasthan d m, Sambalpur d, Shivaji d m, Sri Venkateswara d, Utkal d.

Chinese: Allahabad, Banaras, Calcutta, Delhi, Gorakhpur, Lucknow, Punjab, Punjabi, Saugar, Varanaseya Sans. Vish., Visva-Bharati.

Civil and Hydraulic Engg. : *Master's :* Indian Institute of Science.

Coal Mining Course : Industrial Training Instt. (Chandrapur, Nagpur).

Commerce and Business Management: *Bachelor's and Master's :* Agra, Aligarh, Allahabad, Andhra, Annamalai, A. P. Singh, Banaras, Bangalore, Baroda, Berhampur, Bhagalpur, Bhopal, Bihar, Bombay, Burdwan, Calcutta, Calicut (Master's only), Cochin (Master's only), Delhi, Dibrugarh, Gauhati, Gorakhpur, Gujarat, Indore, Jabalpur, Jammu, Jiwaji, Jodhpur, Kanpur, Karnataka, Kashmir, Kerala, Kurukshetra, Lucknow, Madras, Madurai (Bachelor's), Magadh, Marathwada, Meerut, Mysore, Nagpur, North Bengal, Osmania, Patna, Poona, Punjab, Punjabi (Bachelor's), Rajasthan, Ranchi (Bachelor's), Ravi Shankar, Sambalpur, Sardar Patel, Saugar, Saurashtra, Shivaji, South Gujarat, Sri Venkateswara (Bachelor's), Udaipur, Utkal, Vikram.

Communication Engg. : See 'Electronics' in this list.

Computer Science: *Bachelor's :* I. I. T., Kanpur. *Master's :* Bombay. *Diploma :* Bombay (c. management), I. I. T., Kharagpur, Jadavpur. *Certificate :* South Gujarat (c. programming).

Co-operation: *Master's :* Bhagalpur (rural economics and c.). *Diploma :* Andhra (c. and rural studies), Baroda, Gujarat, Marathwada (co-operative management), Rajasthan, Shivaji.

Criminology and Forensic Science: Karnataka, Mysore, Saugar. *Diploma/Certificate :* Delhi (forensic sciences), Lucknow, Madras, Rajasthan, Saugar, Shivaji.

Dairy Science: *Bachelor's :* Allahabad (animal husbandry and dairying), Assam Agri. (animal husbandry), Bhagalpur, G. B. Pant, Univ. of Agri. and Tech., Punjab, Punjab Agri. (animal husbandry), Punjabrao (animal husbandry), Sardar Patel. *Master's :* Allahabad, Assam Agri. (animal husbandry), Meerut (animal husbandry and dairying), Punjab, Sardar Patel, Udaipur. *Diploma :* Indian Inst. of Tech., Kharagpur.

Dance : See 'Music' in this list.

Dentistry : *Bachelor's :* Bangalore*, Bombay,* Calcutta, Gujarat*, Indore, Kerala,* Lucknow*, Madras*, Mysore*, Nagpur, Osmania, Patna, Punjab*, Punjabi. *Master's :* Universities marked*.

Dermatology : Andhra d m, Bombay m, Calcutta d, Delhi d, Gujarat m, Madras d m, Punjab d.

Dietetics/Nutrition : Baroda d, Calcutta d, Madras d, Osmania m, Punjab d.

Dogri : *Certificate :* Jammu.

Drama : *Bachelor's and Master's :* Rabindra Bharati. *Diploma :* Gujarat, Punjabi (dramatic arts), Rabindra Bharati.

Econometrics : See 'Applied Statistics' in this list.

Economics†: Agra, Aligarh, Allahabad, Andhra, Annamalai, A. P. Singh, Banaras, Bangalore, Baroda, Berhampur, Bhagalpur, Bhopal, Bihar, Birla, Bombay, Burdwan, Calcutta, Delhi, Dibrugarh, Gauhati, Gorakhpur, Gujarat, Haryana Agri. (agri. economics), Himachal Pradesh (agri. economics), Indore, Jabalpore, Jadavpur, Jamua Millia Islamia, Jammu, Jiwaji, Jodhpur, Kalyani, Kanpur, Karnataka, Kashi Vidyapith, Kerala, Kurukshetra, Lucknow, Madras, Madurai, Marathwada, Meerut, Mysore, Nagpur, North Bengal, Osmania, Patna, Poona, Punjab, Punjab Agri., Punjabi, Rajasthan, Ranchi, Ravi Shankar, Sambalpur, Sardar Patel, Saugar, Saurashtra, Shivaji, S.N.D.T. Women's, South Gujarat, Sri Venkateswara, Udaipur, Utkal, Varansaseya Sanskrit Vish., Vikram, Visva-Bharati.

Economics Applied : *Master's :* Andhra, Utkal.

Education : *B. Ed./B. T. :* Agra*, Aligarh*, Andhra*, Annamalai*, A. P. Singh, Banaras*, Bangalore*, Baroda*, Berhampur, Bhagalpur, Bhopal, Bihar, Bombay*, Burdwan, Calcutta*, Delhi*, Dibrugarh, Gauhati*, Gorakhpur*, Gujarat*, Gujarat Vidyapith*, Himachal Pradesh*, Indore*, Jabalpur*, Jammu, Jiwaji*, Jodhpur, Kalyani*, Kanpur*, Karnataka*, Kerala*, Kurukshetra*, Lucknow*, Madras*, Madurai*, Marathwada*, Meerut*, Mysore*, Nagpur*, North Bengal, Osmania*, Patna*, Poona*, Punjab*, Punjabi*, Rajasthan*, Ranchi*, Ravi Shankar*, Sambalpur, Sardar Patel*, Saugar*, Saurashtra*, Shivaji*, S.N.D.T. Women's*, South Gujarat*, Sri Venkateswara*, Udaipur*, Utkal*, Varanaseya Sanskrit Vish., Vikram, Visva-Bharati*. *Master's:* Allahabad and universities marked*. *Diploma :* Baroda, Bihar, Bombay, Gauhati, Gujarat, Jabalpur, Kalyani, Karnataka, Lucknow, Nagpur, Patna, Poona, Rajasthan, Sardar Patel, Shivaji.

Educational Administration : *Diploma/Certificate :* Baroda, Nagpur, Sardar Patel (school administration).

Educational Guidance & Counselling : *Diploma/Certificate :* Baroda, Punjab, Sardar Patel.

Educational Measurement & Evaluation : Nagpur d.

Educational & Vocational Guidance: Nagpur d.

Education & Community Psychology : *Master's :* Punjabi.

Electrology : See 'Medical Radiology & Electrology' in this list.

Electronics & Communication: Roorkee (B.E., M.E.), Kurukshetra (B.Sc.).

Endocrinology : P. G. Research Inst. in Medicine m.

Engineering, (Civil, Electrical or Mechanical) : *Bachelor's :* Agra (electrical/mechanical) Aligarh*, Allahabad *, Andhra*, Annamalai*, A. P. Singh, Banaras*, Bangalore*, Baroda*, Bhagalpur — Bhopal (electrical, civil, mechanical), Bihar, Birla*, Bombay*, Burdwan, Calcutta*, Delhi*, Dibrugarh, Gauhati, G. B. Pant Univ. of Agri. and Tech. Gorakhpur, Gujarat*, I. I. T. (Bombay*, Delhi*, Kanpur*, Kharagpur*, Madras*), Indian Institute of Science (electrical communication electrical and mechanical), Indore*, Jabalpur*, Jadavpur*, Jiwaji, Jodhpur*, Karnataka, Kerala*, Kurukshetra*, Madras*, Madurai, Marathwada*, Mysore*, Nagpur, North Bengal*, Osmania*, Patna, Poona*, Punjab, Punjabi, Rajasthan*, Ranchi*, Ravi Shankar, Roorkee*, Sambalpur*, Sardar Patel*, Saurashtra, Shivaji*, South Gujarat, Sri Venkateswara*, Vikram. *Master's :* Indian Institute of Science and universities marked*. *Diploma :* Aligarh (civil, electrical, mechanical).

Engineering (Chemical) : *Bachelor's :* Bombay, Burdwan, Gujarat, I. I. T. (Bombay*, Delhi*, Madras*), Jadavpur*, Madras*, Nagpur*, Osmania*, Punjab*, Roorkee, Sambalpur* (see also oil technology). *Master's :* Indian Inst. of Science, Ranchi and Universities marked*.

English† : Rabindra Bharati and all universities listed above under 'Economics.'

English as a Foreign Language: *Diploma :* Jiwaji, Calicut, Madurai (teaching of English), Shivaji (teaching English as a foreign language).

E. N. T. : P. G. Research Inst. in Medicine m.

Fermentation Tech. : *Master's :* Bombay.

Fibre Science : I. I. T., Delhi.

Financial and Industrial relations : Shivaji.

Fine Arts : (See also 'Painting'). *Bachelor's :* Banaras, Baroda, Kerala, Nagpur, Punjab, S.N.D.T., Visva-Bharati (History of Art). *Master's :* Baroda, Madras, Punjab. *Diploma/Certificate :* Allahabad (applied arts and crafts for women), Banaras, Gujarat, Rabindra Bharati, Visva-Bharati.

Fisheries Tech. : See 'Marine Biology' in this list.

Folklore Studies : *Diploma :* Rajasthan.

Food Tech. : *Bachelor's :* Andhra, Bombay, Jadavpur. *Master's :* Bombay, Jadavpur, Mysore.

Forensic Medicine Science : (See also Criminology): Bombay d, Mysore d m, Osmania d m, Sambalpur m.

French : Agra, Aligarh, Allahabad, Annamalai, Banaras, Bangalore, Baroda, Bombay, Burdwan (also bachelor's), Calcutta, Delhi, Gauhati, Jadavpur, Jodhpur, Karnataka, Kurukshetra, Lucknow, Madras, Madurai, Mysore, Nagpur, Osmania, Poona, Punjab, Punjabi, Rajasthan, Udaipur. Utkal, Varanaseya Sans. Vish., Visva-Bharati. *Master's :* Agra, Annamalai, Bombay, Calcutta, Karnataka, Madras, Madurai, Poona.

Furnaces & Refractories Tech. : *Master's :* Madras, Osmania.

Gastro-Enterology : P. G. Research Inst. in Medicine m.

General Medicine : P. G. Research Inst. in Medicine m.

Genito-Urinary Surgery : P. G. Research Inst. in Medicine m.

Geography†: Agra, Aligarh, Allahabad, A. P. Singh, Banaras, Baroda, Bhagalpur, Bombay, Burdwan, Calcutta, Delhi (Human Geography also), Dibrugarh, Gauhati, Gorakhpur, Gujarat, Indore, Jabalpur, Jamia Millia, Jiwaji, Jodhpur, Kanpur, Karnataka, Kurukshetra, Madras, Mysore, Nagpur, North Bengal, Osmania, Punjab, Patna, Poona, Punjabi, Rajasthan, Ranchi, Ravi Shankar, Sardar Patel, Saugar, Saurashtra, Shivaji S.N.D.T., Udaipur, Utkal, Vikram, Visva-Bharati.

Geology†: Agra, Aligarh, Andhra, Annamalai, A. P. Singh, Banaras, Bangalore, Baroda, Bombay, Burdwan, Calcutta, Delhi, Dibrugarh, Gauhati, Gujarat, I. I. T. (Bombay, Kharagpur), Jabalpur, Jadavpur, Jammu, Karnataka, Kerala, Lucknow, Madras, Meerut, Mysore, Nagpur, Osmania, Patna, Poona, Punjab, Rajasthan, Ranchi, Ravi Shanker, Roorkee, Saugar, Shivaji, Sri Venkateswara, Udaipur, Utkal, Vikram.

Geophysics†: *Bachelor's :* Andhra, Banaras, Kharagpur (also Diploma), Osmania, Roorkee. *Master's :* Andhra, Kharagpur.

German : Jadavpur (also bachelor's), Kerala, Marathwada, Sardar Patel, South Gujarat, Vikram and Universities named under 'French' above except, Annamalai, Jodhpur, Kurukshetra. *Master's :* Agra, Banaras, Bombay, Calcutta, Karnataka, Poona.

Glass, Tech. : *Master's :* Banaras.

Greek†: Agra, Allahabad, Bombay, Burdwan, Calcutta.

Gujarati†: Allahabad, Baroda, Bombay, Delhi, Gujarat, Gujarat Vidyapith, Sardar Patel, Saurashtra, S.N.D.T., South Gujarat. *Diploma/Certificate :* Agra, Allahabad, Delhi.

Gynaecology/Obstetrics : Agra d m, Aligarh d, Allahabad d, Andhra d m, Banaras m, Bangalore d, Baroda d m, Bihar d, Bombay m, Calcutta d m, Delhi d m, Dibrugarh d m, Gujarat d m, Indore m, Jiwaji d, Kanpur d, Karnataka d m, Kerala d m, Lucknow d, Madras d m, Madurai d, Marathwada m, Nagpur d m, Osmania d m, Patna d, Poona d m, Post-Graduate Research Inst. in Medicine m, Punjab d m, Punjabi d m, Rajasthan Sambalpur m, Shivaji d m, Sri Venkateswara d, Utkal d.

Hebrew†: Agra, Allahabad, Bombay, Burdwan, Calcutta, Madras, Punjab.

High Voltage Engg. : *Master's :* Indian Institute of Science.

Highway & Marine Engg. Structures : *Bachelor's :* Andhra. *Master's :* Karnataka.

Hindi†: Cochin, Calicut, Gujarat Vidyapith, Guru Nanak and all Universities listed above under 'Economics' except Berhampur, Dibrugarh, Jadavpur, Sambalpur.

History†: Rabindra Bharati and all Universities listed above under 'Economics' except Haryana Agri., Punjab Agri.

Home Science (Home Economics, Home Arts) : *Bachelor's :* Agra, Allahabad, Andhra,* Bangalore, Baroda*, Bhopal,* Bombay, Delhi*, G. B. Pant University of Agri. and Tech., Gujarat,* Indore, Jabalpur,* Madras,* Madurai, Karnataka,* Nagpur,* Punjab,* Punjab Agri.,* Saugar, Sardar Patel, S.N.D.T.,* Udaipur. *Master's :* Sri Venkateswara and Universities Marked.* *Diploma :* Calcutta, G. B. Pant University of Agri. and Tech.

Horticulture : *Bachelor's :* Bhagalpur, Haryana Agri. *Master's* Allahabad, Assam Agri., Banaras, Bhagalpur, Haryana Agri., J. L. Nehru Krishi, Kalyani, Madras, Meerut, Nagpur, Udaipur. *Diploma :* Madras.

Hygiene : Bombay (doctorate).

Indian Philosophy & Religion†: Banaras, Kurukshetra, Madras, Visva Bharati. *Diploma/Certificate :* Allahabad, Banaras (Indian Philosophy and Culture).

Indology : See 'Ancient Indian History' in this list.

Industrial Electronics : *Master's :* Kharagpur.

Industrial Health : Calcutta d, Gujarat d.

Industrial Management : Allahabad, Bombay, Cochin, Delhi, Indian Inst. of Science, I. I. T. (Madras), Bangalore, Kerala, Madras, South Gujarat.

Intermediates and Dyes Tech. (Pigments, paints and varnished plastics) : *Bachelor's and Master's :* Bombay.

Internal Combustion Engg. : *Master's:* Indian Institute of Science.

Islamic Studies (Arab Culture and Civilization†) : Aligarh, Bombay, Calcutta, Gujarat, Lucknow, Osmania.

Italian : Calcutta, Delhi. *Master's :* Agra.

Japanese : Banaras, Visva-Bharati.

Journalism : *Bachelor's :* Mysore, Nagpur, Osmania: Punjab. *Master's :* Calcutta, Mysore. *Certificate/Diploma :* Calcutta, Calicut, Gauhati, Gujarat, Jabalpur, Madras, Poona, Punjab, Ravi Shankar, Shivaji.

Kannada†: Bangalore, Bombay, Karnataka, Madras, Mysore, Osmania, Poona, Shivaji. *Diploma/Certificate :* Annamalai, Bangalore, Karnataka, Madras.

Kashmiri : *Certificate :* Jammu.

Labour/Social Welfare : *Degree/Diploma :* Berhampur, Bhagalpur, Bombay, Calcutta, Gujarat, Patna, Punjab (industrial relations and labour welfare), Rajasthan, Ravi Shankar (industrial sociology, labour welfare and labour administration), Udaipur (labour law, labour welfare and personnel management), Utkal (social and labour welfare).

Laryngology & Otology : See 'Otorhinolaryngology' in this list.

Latin†: Agra, Allahabad, Bihar, Bombay, Burdwan, Calcutta, Gauhati, Madras, Nagpur, Poona, Punjab Shivaji, Utkal.

Law : *Bachelor's :* Agra,* Aligarh,* Allahabad,* Andhra,* A. P. Singh,* Banaras,* Bangalore,* Baroda,* Berhampur, Bhagalpur, Bhopal, Bihar,* Bombay,* Calcutta,* Delhi,* Dibrugarh,* Gauhati, *Gorakhpur,* Gujarat,* Himachal Pradesh,* Indore,* Jabalpur,* Jammu, Jiwaji,* Jodhpur,* Kanpur. Karnataka,* Kerala,* Kurukshetra, Lucknow,* Madras,* Magadh, Marathwada,* Meerut,* Mysore,* Nagpur,* Osmania,* Patna,* Poona,* Punjab,* Punjabi, Rajasthan,* Ranchi, Ravi Shankar, Sambalpur,* Sardar Patel, Saugar,* Saurshtra,* Shivaji, South Gujarat,* Sri Venkateswara, Udaipur,* Utkal,* Vikram.* *Master's :* Universities marked* and Cochin. *Diploma :* Gorakhpur, Jadhpur (labour law), Gujarat (labour law and practise ; and also taxation law and practice), Rajasthan (legislative res. and drafting ; also taxation laws and practice), Shivaji (income tax, sales tax, labour laws, insurance and banking law, cooperation law, mercantile law), Udaipur (labour law, labour welfare and personnel management).

Leather Tech. : *Bachelor's :* Calcutta, Madras. *Master's:* Madras.

Library Science: *Bachelor's:* Aligarh, Andhra, A. P. Singh, Banaras, Baroda, Bombay, Burdwan, Delhi, Gauhati, Gujarat, Jadavpur, Jiwaji, Karnataka, Kerala, Kurukshetra, Lucknow, Madras, Marathwada, Mysore, Nagpur, Osmania, Punjab, Punjabi, Rajasthan, Saugar, Shivaji, S.N.D.T., Vikram. *Master's :* Aligarh, Banaras, Bombay, Delhi, Karnataka, Madras, Vikram. *Diploma/Certificate :* Burdwan, Calcutta, Madras, Madurai, Shivaji, S.N.D.T., Sri Venkateswara, Varanaseya Sans. Vish.

Linguistics†: Agra, Aligarh, Annamalai, Baroda, Bombay, Burdwan, Calcutta, Delhi, Gujarat, Gujarat Vidyapith, Jabalpur, Karnataka, Kerala, Kurukshetra, Lucknow, Mysore, Osmania, Poona, Ravi Shankar, Saugar, Shivaji, Visva Bharati. *Diploma/Certificate :* Aligarh, Annamalai, Baroda (applied linguistics), Delhi, Karnataka, Kerala, Madurai, Osmania, Punjabi, Ravi Shankar (Phonetics).

Local Self Govt. : *Diploma :* Nagpur.

Maithili†: Bihar, Patna.

Malayalam†: Calicut, Delhi, Kerala, Madras. *Diploma/Certificate :* Aligarh, Annamalai, Madras.

Management Science : Bombay, Madras.

Marathi†: Agra, Allahabad, Baroda, Bombay, Gujarat, Indore, Jabalpur, Jiwaji, Karnataka, Lucknow, Marathwada, Nagpur, Osmania, Poona, Saugar, S.N.D.T., Vikram. *Diploma/Certificate :* Agra, Allahabad, Banaras, Delhi, Lucknow.

Marine Biology & Fisheries†: Calicut, Univ. of Agri. Sciences (Bangalore) (Fisheries Science), Annamalai, Cochin (Oceanography also, only master's). *Diploma :* Shivaji (Marine Biology), Univ. of Agri. Sciences, Bangalore (fish processing technology).

Material Science Engg. : *Bachelor's :* I.I.T., Kanpur.

Maternity & Child Welfare : Calcutta d.

Mathematics†: Guru Nanak, Haryana Agri., Himachal Pradesh, I. I. T. (Bombay, Delhi, Kanpur, Kharagpur, Madras), Jadavpur, Jamia Millia, Jammu, Punjab Agri., Roorkee and all universities listed above under Botany.

Mathematics applied†: (see also 'Computer Science' above). *Master's :* Andhra, Calcutta, Indore, Jabalpur, Roorkee.

Medical Laboratory Tech. : Bombay d.

Medical Pathology & Bacteriology : Andhra m, Punjab d, Rajasthan m.

Medical Radiodiagnosis/Radiotherapy : Aligarh d, Banaras d, Baroda d, Bombay d, Calcutta d, Delhi d, Karnataka d, Madurai d, Nagpur d, Patna d, Poona d, Punjab d, Rajasthan d,

Medical Radiological Diagnosis : Nagpur d, Rajasthan d.

Medical Radiological Therapy : Rajasthan d.

Medical Radiology : Aligarh d, Baroda d, Karnataka d, Madurai d, Punjab d, Patna d.

Medical Radiology & Electrology : Agra d, Allahabad d, Baroda d, Bombay d, Gujarat d, Jiwaji d, Kanpur d, Kerala d, Lucknow d, Osmania d, Poona d.

Medicine (MBBS, MD and MS) : Agra, Aligarh, Allahabad, Andhra, A. P. Singh, Banaras, Bangalore, Baroda, Bhagalpur (only MBBS), Bihar, Bombay, Calcutta, Delhi, Dibrugarh, Gauhati,* Gujarat, Indore, Jabalpur, Jiwaji, Kanpur, Karnataka, Kerala, Lucknow, Madras, Madurai, Marathwada, Meerut,* Mysore, Nagpur, North Bengal,* Osmania, Patna, Poona, Punjab, Punjabi, Rajasthan, Ranchi,* Ravi Shankar,* Sambalpur, Saurashtra, Shivaji, South Gujarat,* Sri Venkateswara, Utkal.

Medicine (Ayurvedic/Indian) : *Bachelor's :* Andhra, Bangalore, Gujarat, Indore, Jabalpur, Jammu, Jiwaji, Karnataka, Kerala, Madras, Madurai, Marathwada, Mysore, Nagpur, Osmania, Poona, Rajasthan, Ravi Shankar, Saugar. *Dyam :* Banaras.

Medicine (Unani) : *Bachelor's :* Aligarh, Osmania.

Metallurgical Engg. : *Bachelor's :* Banaras,* Baroda, Burdwan,* Calcutta,* I. I. T. (Bombay,* Kanpur,* Kharagpur,* Madras*), Jadavpur, Madras, Nagpur, Punjab, Poona,* Rajasthan, Ravi Shankar, Roorkee,* Sambalpur. *Master's :* Andhra (ore-dressing), Ranchi and Universities marked.*

Metallurgy: *Bachelor's and Master's :* Indian Institute of Science, Roorkee.

Meteorology : *Master's :* Andhra.

Microbiology†: Annamalai, Banaras, Baroda, Bombay, Delhi, Gujarat, Haryana Agri., Karnataka, Madras (MD), Punjab, Punjab Agri., P. G. Research Inst. in Medicine, Rajasthan, Saurashtra, South Gujarat.

Middle Eastern Languages : Mysore.

Military Science†: Agra, Allahabad (defence studies), Gorakhpur, Jiwaji, Kurukshetra, Lucknow, Meerut, Poona, Punjab, Punjabi.

Mining Engg. : *Bachelor's :* Banaras, Calcutta, I. I. T. Kharagpur, Jodhpur, Madras, Osmania, Ravi Shankar. *Master's :* Banaras, I. I. T. Kharagpur, Jodhpur.

Mongolian : Banaras.

Musicology : *Diploma :* Banaras, Baroda, Calcutta.

Music : *Bachelor's :* Annamalai, Banaras, Baroda, Calcutta, Delhi, Indore, Kerala, Madurai, Mysore, Rabindra Bharati (also dance), S.N.D.T., Sri Venkateswara, Visva-Bharati. *Master's :* Banaras, Baroda, Delhi, Indira Kala Sangit (also dance), Indore, Jabalpur, Kerala, Madras, Mysore, Nagpur, Punjab, Ravindra Bharati (also dance), Rajasthan, Sri Venkateswara. *Diploma/Certificate :* Agra (also Indian music), Allahabad (Indian Music), Banaras, Baroda, Bombay (Hindustani vocal classical), Burdwan, Delhi (Hindustani music or Karnataka music), Gujarat (also dancing), Indira Kala Sangit (also dance), Madras, Patna, Poona, Punjabi, Rabindra Bharati (also dance), Saugar (military music), Saurashtra, Varanaseya Sans. Vish., Visva-Bharati (music, dance and vocal music).

Naval Architecture : *Bachelor's :* Kharagpur.

Nephrology : Madras m, P. G. Research Inst. in Medicine m.

Neurology : Bombay m, Madras m., National Instt. of Mental Health & Neuro Sciences, Bangalore.

Neurosurgery : Bangalore m, Bombay m, Madras m, P. G. Research Inst. in Medicine m., National Instt. of Mental Health & Neuro Sciences, Bangalore.

Nursing : *Bachelor's :* Bombay, Delhi, Gujarat, Indore, Kerala, Madras, Osmania, Poona, Punjab, Rajasthan, S.N.D.T. *Master's :* Delhi, Madras.

Nutrition : See 'Dietetics' in this list.

Occupational Therapy : *Bachelor's :* Bombay, Nagpur.

Oceanography : *Master's :* Andhra, Kerala.

Oils, Fats and Waxes Tech. *Bachelors :* Bombay, Nagpur, Osmania.

Operational Research : *Master's :* Delhi.

Ophthalmology (Ophthalmic Medicine & Surgery) : Agra d, m, Aligarh d, Allahabad d, Andhra d m, Banaras d m, Bangalore d, Baroda d, Bombay m, Calcutta m, Delhi d m, Dibrugarh d m, Gujarat d m, Indore d m, Jiwaji d, Kanpur d, Karnataka d, Kerala d m, Lucknow d, Madras d m, Madurai d, Marathwada d m, Mysore d, Nagpur d, Osmania d m, Patna d, Poona d m, Punjab d m, P. G. Research Inst. in Medicine m, Punjabi d m, Rajasthan d m, Sambalpur m, Saurashtra d, Shivaji d m, Shri Venkateswara d, Utkal d m.

Oriental Learning : *Bachelor's :* Bihar, Osmania, Sambalpur, Utkal. *Master's :* Bihar, Rajasthan. *Diploma :* Nagpur, Osmania.

Oriya†: Berhampur, Burdwan, Sambalpur, Utkal, Visva-Bharati. *Diploma/Certificate :* Visva-Bharati.

Orthopaedic Surgery : Agra d, Aligarh d, Allahabad d, Andhra m, Banaras d m, Baroda m, Bombay m, Delhi m, Gujarat m, Kanpur d, Karnataka d m, Kerala d m, Lucknow d, Madras d m, Madurai d, Poona d m, P. G. Research Inst. in Medicine m, Rajasthan d m, Sambalpur d, Shivaji d m, Utkal d.

Otorhinolaryngology : Aligarh d, Allahabad d, Andhra d m, Banaras d m, Baroda d m, Bombay m, Calcutta d, Delhi d m, Dibrugarh d m, Gujarat d m, Indore m, Kanpur d, Karnataka d m, Kerala d, Lucknow d, Madras d m, Madurai d, Osmania d, Patna d, Poona m, Punjab d, Rajasthan d m, Sambalpur m, Shivaji d m, Sri Venkateswara d, Utkal d.

Paediatrics : See 'Child Health' in this list.

Painting : *Bachelor's :* Indira Kala Sangit, Meerut, S.N.D.T., Visva-Bharati. *Master's:* Agra, Indira Kala Sangit, Meerut, Rajasthan, Udaipur, Vikram. *Diploma/Certificate :* Allahabad, Annamalai, Banaras, Baroda, Gujarat, Indira Kala Sangit, Rabindra Bharati.

Paints & Varnishes Tech. : *Bachelor's :* Osmania.

Pali†: Banaras, Baroda, Bombay, Burdwan, Calcutta, Gujarat, Jabalpur, Kurukshetra, Marathwada, Nagpur, Patna, Poona, Shivaji, Visva-Bharati. *Diploma/Certificate :* Lucknow, Visva-Bharati.

Pathology : Agra m, Andhra m, Banaras m, Baroda m, Bombay m, Delhi m, Dibrugarh d m, Gujarat m, Indore m, Karnataka m, Kerala m, Madras m, Marathwada m, Mysore m, Osmania m, Poona m, P. G. Research Inst. in Medicine m, Punjab m, Punjabi m, Rajasthan m, Sambalpur m, Shivaji m.

Pathology, Clinical : Agra d, Aligarh d, Allahabad d, Andhra d, Banaras d, Bangalore d, Baroda d, Bihar d, Indore d, Kanpur d, Karnataka d, Kerala d, Lucknow d, Madras d, Osmania d, Patna d, Poona d, Rajasthan d, Shivaji d, Sri Venkateswara d, Utkal d.

Pearl Culture : Central Marine Fisheries Research Instt., Tuticorin 628001.

Persian†: Agra, Aligarh, Allahabad, Banaras, Baroda, Bihar, Bombay (also certificate), Burdwan, Calcutta, Delhi, Gauhati, Gorakhpur, Gujarat, Jabalpur, Jamia Millia, Jammu (certificate), Karnataka, Lucknow, Madras, Mysore, Nagpur, Osmania, Punjab, Patna, Poona, Punjabi, Rajasthan, Ravi Shankar, Saugar, Saurashtra, Shivaji, Sri Venkateswara, Utkal, Visva-Bharati.

Petro-chemicals Tech.: *Master's :* Kharagpur.

Pharmaceuticals and Fine Chemicals Tech. : *Bachelor's :* Bombay, Osmania. *Master's :* Bombay, Osmania.

Pharmacology : Agra m, Andhra m, Banaras m, Baroda m, Bombay m, Delhi m, Dibrugarh m, Gujarat m, Indore m, Karnataka m, Kerala m, Madras m, Marathwada m, Mysore m, Osmania m, Poona m, P. G. Research Inst. in Medicine m, Punjab m, Punjabi m, Rajasthan m, Sambalpur m.

Pharmacy : *Bachelor's :* Andhra,* Banaras,* Bangalore, Birla,* Bombay,* Gujarat,* Jadavpur,* Jodhpur, Kerala, Madras,* Madurai, Mysore, Nagpur,* Punjab,* Saugar,* Shivaji. *Master's :* Universities marked.* *Diploma/Certificate :* Gujarat, Poona, Punjab.

Philosophy†: Gujarat Vidyapith, Rabindra Bharati and all Universities listed above under 'Economics' except Berhampur, Birla, Himachal Pradesh, South Gujarat.

Photogrammetric Tech. : *Master's :* Roorkee.

Physical Education : *Bachelor's :* Bangalore, Jiwaji, Kalyani, Madras, Madurai, Punjab, Punjabi, Ravi Shankar, Shivaji. *Master's :* Jiwaji, Madras, Punjab, Punjabi. *Diploma :* Andhra, Banaras, Bangalore, Gujarat, Jabalpur, Jiwaji, Kalyani, Lucknow, Madras, Nagpur, Osmania, Punjabi, Shivaji (also certificates).

Physics†: Calicut, Cochin, Himachal Pradesh, Indian Inst. of Science, I. I. T. (Bombay, Delhi, Kanpur, Kharagpur, Madras), Jadavpur, Jammu, Roorkee and all Universities listed above under 'Botany', except Haryana Agri.

Physiology : Agra m, Andhra m, Banaras m, Baroda m, Bombay m, Calcutta m, Delhi m, Dibrugarh m, Gujarat m, Indore m, Karnataka m, Kerala m, Madras m, Marathwada m, Mysore m, Osmania m, Punjab m, Punjabi m, Rajasthan m, Sambalpur m, Shivaji m, Sri Venkateswara m.

Physiotherapy : *Bachelor's :* Baroda, Bombay (Physical Therapy).

Planning : *Master's :* Calcutta (City and Regional Planning), Kharagpur (Town and Regional Planning). *Diploma* Calcutta (Town and Country Planning). *Bachelor's* Madras.

Plastic Surgery : Bombay m, Madras m, Nagpur m, P. G. Research Inst. in Medicine m.

Plastics & Rubber Tech.: *Bachelor's:* Bombay, Calcutta.

Polish : Delhi.

Political Science†: All Universities listed under 'Economics' except Haryana Agri., Punjab Agri. and South Gujarat.

Portuguese : Bombay (bachelor's and master's).

Prakrit†: Allahabad, Baroda, Bihar, Gujarat, Jabalpur, Kurukshetra, Lucknow, Nagpur, Visva-Bharati. *Diploma* Mysore.

Preventive & Social Medicine : Banaras m, Baroda m, Bombay m, Gujarat m, Indore m, Marathwada m, Poona m, Rajasthan m, Sambalpur m, Shivaji m.

Psychiatry : P. G. Research Inst. in Medicine m.

Psychiatric Nursing : National Instt. of Mental Health & Neuro Sciences, Bangalore.

Phychiatric Social Work : Bangalore m., National Instt. of Mental Health & Neuro Sciences, Bangalore.

Psychological Medicine : Bangalore d m, Bombay d m, Calcutta d, Gujarat d, Karnataka d, Mysore d, Rajasthan d, National Instt. of Mental Health & Neuro Sciences, Bangalore.

Psychology†: Guru Nanak and all Universities listed under 'Economics' except Berhampur, Birla, Dibrugarh, Haryana Agri., Himachal Pradesh, Jadavpur, Jammu, Jiwaji, Punjab Agri., Sambalpur, Varanaseya Sans. and Visva-Bharati, National Instt. of Mental Health & Neuro Sciences, Bangalore.

Psychology, Clinical : Banaras d, Kerala d, National Instt. of Mental Health & Neuro Sciences, Bangalore.

Public Administration†: Aligarh, Andhra, Karnataka, Lucknow, Madras, Marathwada, Mysore, Nagpur, Osmania, Patna, Pune, Punjab, Punjabi, Rajasthan, Saugar, South Gujarat, Utkal. *Diploma :* Aligarh, Gorakhpur, Lucknow, Osmania, Patna.

Public Health : Andhra d, Bombay d, Calcutta d, Gujarat d, Kerala d, Lucknow d, Marathwada d, Osmania (bachelor's), Patna d, Poona d, Rajasthan d, Shivaji d.

Public Health Engg. : *Master's :* Bangalore, Calcutta, I. I. T. (Kharagpur), Nagpur, Roorkee.

Punjabi†: Delhi, Gauhati, Guru Nanak, Kurukshetra, Punjab, Punjabi. *Diploma/Certificate :* Allahabad, Punjabi.

Radar Engg. : *Master's :* I. I. T., Delhi, I. I. T.,

Radiation Medicine : Bombay d, Delhi d.

Radio-Physics & Electronics : Calcutta.

Radiodiagnosis : Gujarat m, Madras d m, P. G. Research Instt. in Medicine m, Sambalpur d, Utkal d.

Radiology/Radiological Medicine : Agra m, Baroda m, Bombay m, Dibrugarh m, Gujarat m, Jiwaji d, m, Madras d, Punjab m, Poona m, Rajasthan m.

Radiotherapy : Gujarat m, Karnataka d, Madras d, m, P. G. Research Instt. in Medicine m, Utkal d.

Religion : See ' Indian Philosophy ' in this list.

Rocketry : See ' Space Engg. ' in this list.

Rubber Tech. : *Bachelor's :* Bombay, Calcutta.

Rural Studies : *Master's :* South Gujarat.

Russian : Agra, Aligarh, Allahabad, Andhra, Banaras, Baroda, Bombay, Calcutta, Delhi, Gauhati, Indore, Jadavpur, Karnataka, Kerala, Lucknow, Madras, Madurai, Mysore, Nagpur, Osmania, Poona, Punjab, Rajasthan, Shivaji, Utkal, Varanaseya Sanskrit Vish., Vikram.

Sanitary Science : *Bachelor's :* Madras.

Sanskrit†: Rabindra Bharati and all Universities listed above under ' Economics ' except Berhampur, Haryana Agri., Punjab Agri., and Sambalpur.

Sculpture : *Bachelor's :* Visva-Bharati. *Diploma :* Banaras, Baroda, Gujarat.

Serbo-Croatian : Delhi.

Silicate Tech.: *Bachelor's :* Banaras. *Master's :* Banaras.

Sindhi†: Bombay, Gujarat, Poona, Punjab, Punjabi.

Social Service : *Diploma/Certificate :* Allahabad, Kerala, Madras.

Social Welfare : See ' Labour ' in this list.

Social Work : *Bachelor's :* Bombay, Kashi Vidyapith, Mysore, Visva-Bharati. *Master's :* Agra, Andhra, Baroda, Bombay, Delhi, Gujarat Vidyapith, Delhi, Indore, Karnataka, Kashi Vidyapith, Kerala, Lucknow, Madras, Mysore, Shivaji, Udaipur. *Diploma/Certificate :* Calcutta, Nagpur, Poona, Allahabad, Kerala, Madras.

Sociology†: Agra, Aligarh, Andhra, Annamalai, A. P Singh, Banaras, Bangalore, Baroda, Bhagalpur, Bhopal, Bombay, Calcutta, Delhi, Dibrugarh, Gorakhpur, Gujarat, Haryana Agri., Indore, Jabalpur, Jiwaji, Jodhpur, Kalyani, Kanpur, Kashi Vidyapith, Kerala, Lucknow, Madras, Marathwada, Meerut, Mysore, Nagpur, Osmania, Patna, Poona, Punjab, Punjab Agri., Punjabi, Rajasthan, Ravi Shankar, Sardar Patel, Saugar, Saurashtra, Shivaji, S.N.D.T., South Gujarat, Sri Venkateswara, Udaipur, Utkal, Vikram, Visva-Bharati.

Space Engg. & Rocketry : *Master's* **:** Ranchi.

Spanish : Delhi, Utkal.

Speech Therapy : *Bachelor's :* Bombay.

Statistics†: Agra, Aligarh, Allahabad, Andhra, Annamalai, Banaras, Bangalore, Baroda, Bhagalpur, Bombay, Burdwan, Calcutta, Delhi, Dibrugarh, Gauhati, G. B. Pant University of Agri. and Tech., Gujarat, Guru Nanak, Haryana Agri., I. I. T. Kanpur, Indore, Kanpur, Karnataka, Kerala, Lucknow, Madras, Meerut, Mysore, Nagpur, Osmania, Patna, Poona, Punjab, Punjab Agri., Rajasthan, Sardar Patel, Shivaji, South Gujarat, Sri Venkateswara, Utkal, Vikram. *Diploma/Certificate :* Aligarh, Andhra (applied statistics), Gauhati, Gujarat, Karnataka, Kurukshetra, Madras, Punjab (also economic statistics), Punjabi.

Steno-typing : *Diploma :* Aligarh.

Surgery : P. G. Research Inst. in Medicine m.

Swahili : Delhi.

Syriac†: Burdwan, Calcutta, Madras.

Tamil†: Allahabad, Annamalai, Banaras, Delhi, Kerala, Lucknow, Madras, Madurai, Osmania, Punjab, Punjabi, Sri Venkateswara, Utkal. *Diploma/Certificate :* Agra Aligarh, Allahabad, Annamalai (teaching Tamil), Banaras, Lucknow, Madras, Punjab, Udaipur.

Telecommunication : *Bachelor's :* Andhra, Jadavpur, Karnataka, Osmania, Poona. *Master's :* Jadavpur, Poona.

Telugu†: Aligarh, Andhra, Annamalai, Madras, Osmania, Sri Venkateswara, Utkal. *Diploma/Certificate :* Agra, Aligarh, Allahabad, Annamalai, Banaras, Madras.

Textile Chemistry : *Bachelor's & Master's :* Bombay.

Textile Engg. : *Master's :* Baroda.

Textile Tech. : *Bachelor's & Master's :* Bangalore, Baroda, Bombay, Burdwan, Calcutta, I. I. T. Delhi, Kanpur, Madras, Punjab.

Thai : Banaras.

Theology : (see also ' Islamic studies ' and ' Indian Philosophy and Religion '). *Diploma :* Aligarh.

Tibetan : Banaras, Calcutta, Gorakhpur, Lucknow, Punjab, Punjabi, Saugar, Varanaseya Sanskrit Vish., Visva-Bharati.

Tubercular Diseases/Tuberculosis : Agra d, Andhra d, Baroda d, Bombay m, Calcutta d, Delhi d, Gujarat m, Indore d, Karnataka d, Lucknow d, Madras d, Nagpur d, Osmania d, Patna d, Poona m, Rajasthan d, Sambalpur d, Utkal d.

Turkish : Aligarh.

Urdu†: Agra, Aligarh, Annamalai, Allahabad, Banaras, Baroda, Bhopal, Bihar, Bombay, Burdwan, Calcutta, Delhi, Gauhati, Gorakhpur, Gujarat, Jabalpur, Jammu, Karnataka, Kerala, Lucknow, Madras, Marathwada, Mysore, Nagpur, Osmania, Patna, Poona, Punjab, Rajasthan, Ravi Shankar, Saugar, Shivaji, Sri Venkateswara, Udaipur, Utkal, Vikram. *Diploma/Certificate :* Aligarh, Allahabad, Delhi, Jammu, Lucknow, Madras, Visva-Bharati.

Venereal Diseases : Agra d, Andhra d, Calcutta d, Madras d m, Osmania d, Sambalpur d.

Venereology & Dermatology : *Diploma :* Baroda, Bombay,' Gujarat, Karnataka, Poona, Rajasthan, Utkal.

Veterinary Science : *Bachelor's :* Agra.*

Vocational Guidance : *Diploma :* Nagpur.

Yogic Science : *Diploma :* Saugar.

Zoology†: All universities listed above under ' Botany ' except Haryana Agri. and South Gujarat.

Zoo-Physiology : *Master's :* Kerala.

MERCHANT NAVY TRAINING INSTITUTIONS

Merchant Navy Training Board at Jahaz Bhavan, Walchand Hirachand Marg, Bombay 400028, advises Government on all matters pertaining to the training of merchant navy personnel.

Shri Narotam Morarjee Institute of Shipping, 76, Jolly Maker Chambers No. 2, Nariman Point, Bombay 400021 imparts training and conducts examinations in subjects pertaining to the commercial side of shipping — chartering, ship broking practice, marine insurance etc.

The Government of India has set up six training establishments for the training of merchant navy officers and ratings. The Training Ship **" Dufferin "** which started functioning in 1929 was replaced by T. S. **" Rajendra "** in 1972. It provides pre-sea training facilities of one year duration for navigating cadets. The new training ship has an intake of 250 cadets per year. The **Directorate of Marine**

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* B. Pharm. approved by the Pharmacy Council of India for the purpose of registration under the Pharmacy Act, 1948.

† Instts. impart post-graduate education.

Engineering Training at Bombay and Calcutta provides four years' course for engineering cadets. The boys desirous of undergoing training in the "Rajendra" as well as D.M.E.T. are selected on the basis of marks obtained and are drawn from all parts of the country through a competitive entrance examination followed by interviews and medical and eyesight tests.

Rules for Entry into T.S. **"Rajendra"** and D.M.E.T. are as follows :

Age Limit : Candidate must have completed 16 years of age and must not have exceeded 20 years on September 1 of the year of entry. **Eligibility :** A candidate is eligible provided he has passed intermediate science examination of any University with mathematics and physics.

The pre-entry qualification for engineering cadets for entry into D.M.E.T. is a pass in higher secondary examination or equivalent of a recognised board of secondary examination or a University in the science stream with physics, chemistry and mathematics as elective subjects. The duration of the course is 4 years.

The Lal Bahadur Shastri Nautical and Engineering College at Hay Bunder, Tank Road, Bombay 400033 provides post-sea training instructional courses for both navigating and engineering officers and apprentices who are preparing for Ministry of Transport Certificates of Competency Examinations. There is a Life Boat School attached to the college.

Candidates with the requisite educational qualifications and within the age group prescribed for "Rajendra" and D.M.E.T. training are also admitted by shipping companies as Direct Entry Cadets. The Shipping Corpn. of India and the Great Eastern Shipping Company have established special pre-sea training schemes of their own for such cadets.

Ratings, Training Establishments: The Training Ships **"Bhadra"** (Calcutta), **"Mekhala"** (Visakhapatnam) and **"Naulakhi"** (Navlakhi, Gujarat) are ratings' training establishments. These institutions provide a six months' course for deck and engine room ratings. Candidates between the age group 18 to 22 with minimum educational qualification of 8th standard pass are eligible for admission, if medically fit. Advertisements are published in all important newspapers in India in different languages once in a year or when necessary for selection of candidates for pre-sea training courses and they are selected on merits after an interview at Bombay by the Director, Seamen's Employment Office and at Calcutta, Navlakhi and Visakhapatnam by the respective Captain Superintendents of the training ships according to the number required each year.

MEDICAL COLLEGES: The List of 106 Medical Colleges :

Andhra Pradesh : Andhra Med. Coll., Visakhapatnam 530001 ; Gandhi Med. Coll., Hyderabad 500001 ; Kakatiy Med. Coll., Warangal 506002 ; Med. Coll., Kurnool 518001 ; Osmania Med. Coll., Hyderabad 500001 ; Rangaraya Med. Coll., Kakinada 533 001 ; S. V. Med. Coll., Tirupati 517501.

Assam : Assam Med. Coll., Dibrugarh 786001 ; Gauhati Med. Coll., Gauhati 781001 ; Silchar Med. Coll., Chungoor 788014.

Bihar : Darbhanga Med. Coll., Darbhanga 845417 ; M. Gandhi Memorial Med. Coll., Mango 831012, Jamshedpur Dist. ; Magadh Med. Coll., Gaya 823001 ; Med. Coll., Bhagalpur 812002 ; Nalanda Med. Coll., Patna 800001 ; P.W. Med. Coll., Patna 800004 ; Patliputra Med. Coll., Dhanbad 826004 ; Rajendra Med. Coll., Ranchi 834009 ; Sri Krishna Med. Coll., Muzaffarpur 842001.

Delhi : All India Instt. of Med. Sciences, N. Delhi 1100
Coll. of Med. Sciences, Delhi 110005 ; Lady Hard
Med. Coll., N. Delhi 110001 ; Maulana Azad Med.
N. Delhi 110001.

Goa: Goa Med. Coll., Panaji 403001.

Gujarat : B. Jijibhai Med. Coll., Ahmedabad 3
Govt. Med. Coll., Surat 395001 ; M. P. Shah Med. C
Jamnagar 361001 ; Med. Coll., Vadodara 390001 ; N.
Municipal Med. Coll., Ahmedabad 380006.

Haryana : Govt. Med. Coll., Rohtak 124001.

Himachal Pradesh: H. P. Med. Coll., Simla 17100

Jammu and Kashmir : Govt. Med. Coll., S
190001; Med. Coll., Jammu 180001.

Karnataka : Bangalore Med. Coll., Bangalore 560
J. J. M. Med. Coll., Davangere 577001 ; J. L. Nehru M
Coll., Belgaum 590001 ; Karnatak Med. Coll., H
580022 ; Kasturba Med. Coll., Manipal 576119 ; M.
Med. Coll., Gulbarga 585105 ; Med. Coll., Bellary 583
Mysore Med. Coll., Mysore 570001 ; St. John's M
Coll., Bangalore 560034.

Kerala : Med. Coll., Calicut 673008 ; Med. Coll., Kot
686001 ; Med. Coll., Trivandrum 595011 ; T. D
Med. Coll., Alleppey 688005.

Madhya Pradesh : G. R. Med. Coll., Gwalior 47
Gandhi Med. Coll., Bhopal 477001 ; J. L. Nehru Med. C
Raipur 492001 ; M. G. M. Med. Coll., Indore 452001 ;
Coll., Jabalpur 482001 ; S. S. Med. Coll., Rewa 486001.

Maharashtra : Armed Forces Med. Coll., Pune 411
B. J. Med. Coll., Pune 411001 ; Dr. V. M. Med. C
Sholapur 413001 ; Govt. Med. Coll., Aurangabad 4310
Grant Med. Coll., Bombay 400008 ; Indira Gandhi M
Coll., Nagpur 440001 ; L. T. M. Med. Coll., Sion, Bom
400022 ; M. G. Coll. of Med. Sciences, Sevagram
Med. Coll., Nagpur 440001 ; Miraj Med. Coll., M
416410 ; S. R. T. R. Med. Coll., Ambajogai 431517 ;
Seth G. S. Med. Coll., Bombay 400012 ; T. N. Med. C
Bombay 400008.

Manipur: Regional Med. Coll., Imphal 795001.

Orissa : Maharaja K. C. Gajapati Med. Coll., Ber
760004 ; S. C. Bhanj Med. Coll., Cuttack 753007 ; V.
Med. Coll., Burla 768017.

Pondicherry : Jawaharlal Instt. of Postgraduate M
Educ. & Research, Pondicherry 605001.

Punjab : Christian Med. Coll., Ludhiana 141001 ;
nand Med. Coll., Ludhiana 141001 ; Govt. Med. C
Patiala 147001 ; Guru Govind Singh Med. Coll., F
151203 ; Med. Coll., Amritsar 143001.

Rajasthan : Dr. S. N. Med. Coll., Jodhpur
J. L. Nehru Med. Coll., Ajmer 305001 ; R. N.
Med. Coll., Udaipur 313001 ; Sawai Mansingh Med.
Jaipur 302001 ; S. P. Med. Coll., Bikaner 334001.

Tamil Nadu : Christian Med. Coll., Vellore
Kilpauk Med. Coll., Madras 600010 ; Med. Coll., C
603001 ; Med. Coll., Coimbatore 641001 ; Med.
Madras 600001 ; Med. Coll., Madurai 625001 ; Med. C
Thanjavur 613004 ; Med. Coll., Tirunelveli 62
Stanley Med. Coll., Madras 600001.

Uttar Pradesh : B. R. D. Med. Coll., Gorakhpur 2
G. S. V. Med. Coll., Kanpur 208002 ; Instt. of
Sciences, Varanasi [illegible] ; J. L. N. Med. Coll., [illegible]
[illegible] ; L. L. R. M. Med. Coll., [illegible] ;
B. Med. Coll., Jhansi [illegible] ; M. L. N. Med. Coll.,
Allahabad 211001 ; S. N. Med. Coll., Agra

West Bengal : B. S. Med. Coll., Bankura 722101 ; B. U. Med. Coll., Burdwan 713101 ; Cal. National Med. Coll., Calcutta 700014 ; Med. Coll., Calcutta 700012 ; Nilratan Sarkar Med. Coll., Calcutta 700014 ; North Bengal Univ. Med. Coll., Darjeeling 734101 ; R. G. Kar Med. Coll., Calcutta 700004.

PHARMACY COLLEGES :

Andhra Pradesh: @Arts and Science College, Warrangal 506002 ; @*Dept. of Pharmacy, Univ. Coll. of Science & Technology, Andhra Univ., Waltair 530004 ; * Govt. Polytechnic, Hyderabad 500001 ; * Govt. Polytechnic for Women, Kakinada 533001 ; * Govt. Polytechnic, Visakhapatnam 530001 ; *Kamala Nehru Women Polytechnic, Mukarram Jahi Rd., Hyderabad 500001 ; *S. V. Govt. Polytechnic, Tirupati 517501.

Assam: *Instt. of Pharmacy, Assam Med. Coll., Dibrugarh,

Bihar: @*Birla Instt. of Technology, Ranchi 834001 ; * Pharmacy School, Patna 800008 ; @Ram Lakhan Singh Mahavidyalaya, Bakhtiarpur, 803212.

Chandigarh : *Govt. Polytechnic for Women, Chandigarh 160003 ; @*Dept. of Pharmaceutical Sciences, Punjab Univ., Chandigarh 160014.

Delhi : *Coll. of Pharmacy, Pusa, N. Delhi 110012 ; @*Hamdard Coll. of Pharmacy, Tuglaqabad, N. Delhi 110062.

Goa : @*Goa Coll. of Pharmacy, Panaji 403001.

Gujarat : Govt. Polytechnic, Rajkot 360001 ; *L. M. Coll. of Pharmacy, Ahmedabad 380009 ; Pharmacy Deptt., Deptt. of Technology & Engg., M. S. Rao Univ., Vadodara 390002 ; *Shri Mohan Lal Narain Das Coll. of Pharmacy, Bethak Rd., Cambay 388620.

Haryana : * Govt. Tech. Instt., Ambala City 133003 ; * Med. Coll., Rohtak 124001 ; Janta Vidya Bhawan, Butana 124302.

Karnataka: @Govt. Coll. of Pharmacy, Lal Bagh, Bangalore 560002 ; @*Coll. of Pharmacy, Kasturba Med. Coll., Manipal 576119 ; *H. K. E. Society's Coll. of Pharmacy, (M. R. Med. Coll.), Gulbarga 585101 ; *J. S. S. Coll. of Pharmacy, Ramayana Rd., Mysore 570001 ; *K. L. E. Society's School of Pharmacy, Belgaum 590001 ; K. L. E. Society's School of Pharmacy, Rajaji Nagar, Bangalore 580002 ; * Municipal Coll. of Pharmacy, Chikballapur 562101 ; * Nat. Educ. Society's Instt. of Pharmacy, Shimoga 577201 ; * V. L. Coll. of Pharmacy, Raichur 584101.

Kerala : *Calicut Med. Coll., Calicut 673008; *Kottayam Med. Coll., Kottayam 686001 ; *Med. Coll., Trivandrum 695011 ; *T. D. Med. Coll., Alleppey 688001.

Madhya Pradesh : @*Dept. of Pharm. Sciences, Univ. of Saugar, Saugar 470003; *Holkar Science Coll., Indore 452001 ; *S. V. Govt. Polytechnic, Bhopal 462001.

Maharashtra : *Armed Forces Med. Coll., Pune 411001; *Arts, Science & Commerce Coll., Panchavati, Nasik 422001 ; @*Bombay Coll. of Pharmacy, Kalina 400029 ; @*Coll. of Pharm., Karad 415110 ; @*Coll. of Pharmacy, Ulhasnagar 421001 ; @*Deptt. of Chem. Technology, Univ. of Bombay, Matunga, Bombay 400019 ; @*Deptt. of Pharm. Sciences, Nagpur Univ. Campus, Nagpur 440010 ; * Govt. Polytechnic, Amravati 444601 ; * Govt. Polytechnic, Jalgaon 425001 ; Govt. Polytechnic, S.N.D.T. Women's Univ., Bombay 400020 ; @*K. M. Kundnani's Coll. of Pharmacy, Ulhasnagar 421001 ; * Poona Coll. of Pharmacy, 'Sai Krupa', 122, Bhavani Peth, Pune 411001.

Orissa: *S. C. B. Med. Coll., Cuttack 735001.

Punjab: *Govt. Med. Coll., Patiala 147001 ; * Govt. Polytechnic for Women, Jullundur City 144001; * Med. Coll.; Amritsar 143001.

Rajasthan : @*Birla Instt. of Techy. & Sciences, Pilani 333031 ; Public Health Training Centre, Jaipur 302001.

Tamil Nadu : * Christian Med. Coll., Vellore 632001 ; @*Madras Medical Coll., Madras 600001 ; @ *Madura Med. Coll., Madurai 625001.

Tripura : Health Training Instt., Agartala 799001.

Uttar Pradesh : @*Deptt. of Pharmaceutics, Banaras Hindu Univ., Varanasi 221005 ; *G. S. V. M. Med. Coll., Kanpur 208001 ; Govt. Polytechnic, Dwarhat 263653 ; Govt. Polytechnic, Uttarkashi 249193 ; L. L. M. Med. Coll., Meerut 350002 ; M. L. N. Med. Coll., Allahabad 211001 ; S. N. Medical Coll., Agra 282001.

West Bengal : @*Deptt. of Pharmacy, Jadavpur Univ., Calcutta 700032 ; Instt. of Pharmacy, Kalyani 741235 ; *Instt. of Pharmacy, Jalpaiguri 735101.

DENTAL COLLEGES :

Andhra Pradesh : Dental Wing, Osmania Medical College, Afzalganj, Hyderabad 500012.

Bihar : Dental College and Hospital, Agamkuan, Patna 800007.

Chandigarh : Post-graduate Instt. of Med. Educ. & Research ; Chandigarh 160001 (Exclusively for MDS in Pedodontia and Preventive Dentistry).

Gujarat : Dental College & Hospital, Asarwa, Ahmedabad 380016.

Karnataka : College of Dental Surgery, Kasturba Medical College, Manipal 576119 ; Govt. Dental College, Bangalore 560002.

Kerala : Dental Wing, Medical College, Trivandrum 695011.

Madhya Pradesh: College of Dentistry, Indore 452001.

Maharashtra : Govt. Dental College & Hospital, 1, P. D'Mello Rd., Bombay 400001 ; Govt. Dental College & Hospital, Nagpur 440003 ; Nair Hospital Dental College, Dr. A. L. Nair Rd., Byculla, Bombay 400008 ; Dental Dept., Armed Forces Medical College, Pune 411001.

Punjab : Dental College & Hospital, Amritsar 143001 ; Dental Wing, Govt. Medical College, Patiala 147001.

Tamil Nadu : Dental Wing, Madras Medical College, Madras 600003.

Uttar Pradesh : Dental Wing, King George's Medical College, Lucknow 226003.

West Bengal : Dental College & Hospital, 114, Acharya Jagdish Chandra Rd., Calcutta 700014.

Specialised Studies : The Dental Council of India has prescribed nine specialised subjects for post-graduate education in dentistry. They are (*i*) Prosthetic Dentistry, (*ii*) Oral Surgery, (*iii*) Operative Dentistry, (*iv*) Orthodontia, (*v*) Periodontia, (*vi*) Oral Diagnosis and Dental Radiology, (*vii*) Dental Pathology and Bacteriology, (*viii*) Pedodontia and Preventive Dentistry and (*ix*) Public Health Dentistry.

Departments in these specialised fields exist in the following Dental Institutions :—

Government Dental College and Hospital, Ahmedabad, Gujarat — Operative Dentistry, Prosthetic Dentistry, Periodontia, Oral Pathology & Bacteriology, Oral Diagnosis and Dental Radiology, Orthodontia and Oral Surgery.

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* Approved by the Pharmacy Council of India for the purpose of registration under the Pharmacy Act, 1948.

@ Instts. impart B. Pharm. & post-graduate education.

Dental College, Bangalore, Karnataka — Orthodontia, Oral Surgery, Periodontia, Oral Diagnosis and Dental Radiology, Operative Dentistry and Public Health Dentistry.

College of Dental Surgery, Kastura Medical College, Manipal, South Kanara — Karnataka — Orthodontia, Operative Dentistry, Periodontia, Oral Surgery and Prosthetic Dentistry.

Dental Wing, Medical College, Trivandrum, Kerala — Operative Dentistry, Prosthetic Dentistry, Orthodontia, Oral Surgery and Periodontia.

Government Dental College and Hospital, Bombay Maharashtra — Prosthetic Dentistry, Periodontia, Orthodontia, Dental Pathology and Bacteriology, Oral Surgery, Operative Dentistry and Dental Radiology.

Nair Hospital Dental College, Bombay, Maharashtra — Prosthetic Dentistry, Periodontia, Operative Dentistry, Orthodontia, Dental, Pathology & Bacteriology, Dental Radiology and Oral Surgery.

Punjab Govt. Dental College and Hospital, Amritsar — Punjab — Dental Prosthetics & Crown and Bridge work, Oral Surgery, Operative Dentistry, Pedodontia and Preventive Dentistry.

Dental Wing, Madras Medical College, Madras, Tamil Nadu — Oral Surgery, Periodontia, Orthodontia and Operative Dentistry.

Dental College & Hospital, K. G.'s Medical College, Lucknow, Uttar Pradesh — Prosthedontics, Periodontics, Orthodontics, Oral Surgery, Pedodontia, Preventive Dentistry and Operative Dentistry.

Facilities for training of **Dental Mechanics** and **Dental Hygienists** are available at: (1) Government Dental College and Hospital, Bombay, Maharashtra; (2) Dental Wing, Madras Medical College, Madras, Tamil Nadu; (3) Dental College and Hospital, Bangalore, Karnataka; (4) Dental College & Hospital, K. G.'s Medical College, Lucknow, Uttar Pradesh; (5) Dental Wing, Medical College, Trivandrum; (6) Govt. Dental College & Hospital, Ahmedabad (Dental Mechanic Course only) and some Centres of Armed Forces for army personnel only.

AYURVEDIC COLLEGES FOR DEGREE COURSES

Karnataka: S. J. Institute of Indian Medicine, Bangalore 560001.

Kerala: Ayurveda College, Trivandrum 695001.

Madhya Pradesh: Shri Rajkumar Singh Ayurvedic College, Indore 452001; Mahakoshal Ayurveda Mahavidyalaya, Prem Nagar, Jabalpur 482001; Govt. Ayurvedic College, Amkho, Gwalior 474001; Government Ayurvedic College, Raipur 492001.

Maharashtra: Govt. Ayurvedic College, Nanded 431601; Vidarbha Ayurved Mahavidyalaya, Amravati 444604; R. A. Poddar Medical College, Bombay 400018; Tilak Ayurved Mahavidyalaya, Pune 411011.

Rajasthan: Govt. Ayurved College, Jaipur 302001.

Tamil Nadu: Govt. College of Indian System of Medicine, Palayamkottai 627002.

Uttar Pradesh: Ayurvedic College, Gurukul Kangri Vishvavidyalaya, P.O. Gurukul, Kangri 249404; Sahu Ram Narain M. M. Ayurvedic College, Bans Mandi, Bareilly 243001; State Ayurved College, Lucknow, 266001; Ayurveda College, Attara, Banda 242402; Takmilut Tib College, Jhawai Tola, Lucknow 266003; Unani Medical College, Himmatganj G. T. Rd., Allahabad 211001.

YOGA INSTITUTES

Bihar: Institute of Yoga Research (Bihar Government Dept. of Cardio-Vascular Diseases, The Prince of Wales Medical College Hospital, Patna 800001.

Gujarat: Yoga Sadhan Ashram, 16, Pritamnagar, Ahmedabad 390006.

Madhya Pradesh: Saugar University, Dept. of Yogic Studies, Saugar 470001.

Maharashtra: Yoga Institute, Santa Cruz (East), Bombay 400055.

Yoga Mahavidyalaya, Khatri Estate, Falkland Rd., Bombay 400008.

Kaivalyadhama (Ishwardas Chunilal Yogic Health Centre), N. Subash Rd., Bombay 400002.

Yoga Education Centre, Hindi Vidya Bhavan, 79, Marine Drive, Bombay 400020.

G. S. College of Yoga & Cultural Synthesis, Kaivalyadhama, Lonavala, Pune.

New Delhi: Yogashram, Mandir Lane, Behind Lakshmi Narayan Temple, New Delhi 110001.

Yoga International Instt., Block F, Lajpatnagar — II, New Delhi 110024.

Vishwayatan Yogashram, Alexandra Place, Opp. Gole Post Office, New Delhi 110001.

Tamil Nadu: All India Manava Sevak Samaj, 39, Sullivan Garden Rd., Mylapore, Madras 600004.

Kriya Baba Yoga Rehabilitation Centre, 1-A, Arulananda Mudali St., Madras 600004.

Prof. T. Krishnamacharya's Yoga Institute, 9, West Circular Rd., Mandavalli Pakkam, Madras 600028.

Yoga Centre, Arya Samaj, 107, Lloyds Rd., Madras 600006.

Training Teachers for Deaf & Dumb, Blind & Mentally Handicapped.

Centre for Training Teachers of the Deaf, Lady Noyce School for the Deaf, Kotla Ferozshah, New Delhi 110001.

Central Institute of Teachers of the Deaf, Central Court, 18, Motlibai St., Agripada, Bombay 400011.

Training Centre for Teachers of the Deaf, C/o Education Audiology & Research Centre, Punam, 67, Nepean Sea Rd., Bombay 400006.

Training Centre for the Teachers of the Mentally Handicapped Children, Sewri Hill, Bombay 400033.

National Academy of the Teachers of the Blind, C/o School for the Blind, Palayamkottai, Tirunelveli.

Training College for the Teachers of the Deaf, Aishbagh, Lucknow 226001.

Training College for the Teachers of the Deaf, Calcutta Deaf & Dumb School, 293, A. P. Chandra Rd., Calcutta 700009.

List of Universities, Institutions deemed to be Universities and Institutions of National Importance (as on 1-10-1975

Universities in India: Acharya Narendra Deva University of Agriculture and Technology, Faizabad (Unitary); Agra, Agra, (Affiliating); Aligarh Muslim, Aligarh, (Unitary); Allahabad, Allahabad, (Unitary); Andhra, Waltair, (Affiliating); Andhra Pradesh Agricultural, Rajendranagar, Hyderabad, (Unitary); Annamalai, Annamalainagar, (Unitary); Assam Agricultural, Jorhat, (Unitary); Avadh, Faizabad, (Affiliating); Awadesh Pratap Singh, Rewa, (Affiliating); [illegible]

Hindu, Varanasi, (Unitary); Bangalore, Bangalore, (Federal); Berhampur, Berhampur, (Affiliating); Bhagalpur, Bhagalpur, (Affiliating); Bhopal, Bhopal, (Affiliating); Bidhan Chandra Krishi, Kalyani, (Unitary); Bihar, Muzaffarpur, (Affiliating); Bombay, Bombay, (Federal); Bundelkand, Jhansi, (Affiliating); Burdwan, Burdwan, (Affiliating); Calcutta, Calcutta, (Affiliating); Calicut, Calicut, (Affiliating); Central Univ. of Hyderabad, Hyderabad, (Unitary); Chandra Sekhar Azad University of Agriculture and Technology, Kanpur, (Unitary); Cochin, Cochin, (Federal); Delhi, Delhi, (Affiliating); Dibrugarh, Dibrugarh, (Affiliating); Garhwal Srinagar (Garhwal), (Affiliating); Gauhati, Gauhati, (Affiliating); G. B. Pant University of Agricultural & Technology, Pant Nagar, (Unitary); Gorakhpur, Gorakhpur, (Affiliating); Gujarat, Ahmedabad, (Affiliating); Gujarat Agricultural, Ahmedabad, (Unitary); Gujarat Ayurveda, Jamnagar, (Affiliating); Guru Nanak, Amritsar, (Affiliating); Haryana Agricultural, Hissar (Unitary); Himachal Pradesh, Simla, (Affiliating); Indira Kala Sangeet, Khairagarh, (Affiliating); Indore, Indore, (Federal); Jabalpur, Jabalpur, (Affiliating); Jadavpur, Calcutta, (Unitary); Jammu, Jammu, (Affiliating); Jawaharlal Nehru, New Delhi, (Unitary); Jawaharlal Nehru Krishi, Jabalpur, (Federal); Jawaharlal Nehru Technological, Hyderabad, (Federal); Jiwaji, Gwalior, (Affiliating), Jodhpur, Jodhpur, (Unitary); Kakatiya, Warangal (Affiliating); Kalyani, Kalyani, (Affiliating); Kameshwar Singh Darbhanga Sanskrit, Dharbhanga, (Affiliating); Kanpur, Kanpur, (Affiliating); Karnataka, Dharwar, (Affiliating); Kashi Vidyapith, Varanasi, (Unitary); Kashmir, Srinagar, (Affiliating); Kerala, Trivandrum, (Affiliating); Kerala Agricultural Trichur, (Unitary); Kondan Krishi, Dapoli, (Ratnagiri Dt.), (Unitary); Kumoan, Nainital (Affiliating); Kurukshetra, Kurukshetra, (Affiliating); Lucknow, Lucknow, (Unitary); Madras, Madras, (Affiliating); Madurai Kamraj, Madurai, (Affiliating); M. S. University of Baroda, Baroda, (Unitary); Magadh, Bodh Gaya, (Affiliating); Mahatma Phule Krishi, Rahuri (Dt. Ahmednagar), (Federal); Marathwada, Aurangabad (Affiliating); Marathwada Krishi, Parbhani, (Unitary); Meerut, Meerut, (Affiliating); Mithila, Darbhanga, (Affiliating); Mysore, Mysore (Affiliating); Nagarjuna, Guntur (Unitary); Nagpur, Nagpur, (Affiliating); North Bengal, Raja Ram, Mohanpur (Darjeeling), (Affiliating); North Eastern Hill, Shillong, (Affiliating); Orissa University of Agricultural & Tech., Bhubaneshwar, (Unitary); Osmania, Hyderabad, (Affiliating); Patna, Patna, (Unitary); Punjab, Chandigarh, (Affiliating); Punjab Agricultural, Ludhiana, (Unitary); Punjabi, Patiala, (Affiliating); Punjabrao Krishi, Akola, (Federal); Poona, Pune, (Affiliating); Rabindra Bharati, Calcutta, (Affiliating); Rajasthan, Jaipur, (Affiliating); Rajendra Agricultural, Pusa (Samastipur), (Unitary); Ranchi, Ranchi, (Affiliating); Ravi Shankar, Raipur, (Affiliating); Rohilkand, Bareilly, (Affiliating); Rohtak, Rohtak (Affiliating); Roorkee, Roorkee, (Unitary); Sambalpur, Sambalpur, (Affiliating); Sampurnanand Sanskrit, Varanasi, (Affiliating), Sardar Patel, Vallabh Vidyanagar, (Affiliating); Saugar, Sagar, (Affiliating); Saurashtra, Rajkot, (Affiliating); Shivaji, Kolhapur, (Affiliating); SNDT Women's, Bombay, (Affiliating); South Gujarat, Surat, (Affiliating); Sri Venkateswara, Tirupati, (Affiliating); Tamil Nadu Agricultural, Coimbatore, (Unitary); Udaipur, Udaipur, (Affiliating); University of Agri. Sciences, Bangalore, (Unitary); Utkal, Bhubaneshwar, (Affiliating); Vikram, Ujjain, (Affiliating); Visva-Bharati, Shantiniketan, (Unitary).

Institutions deemed to be Universities: Birla Institute of Technology and Science, Pilani, Rajasthan; Central Institute of English & Foreign Languages, Hyderabad; Gandhigram Rural Institute, Gandhigram, Tamil Nadu; Gujarat Vidyapith, Ahmedabad; Gurukul Kangri Vishwavidyalaya, Hardwar, Uttar Pradesh; Indian Agricultural Research Institute, New Delhi; Indian Institute of Science, Bangalore; Indian School of Mines, Dhanbad, Bihar; Jamia Millia Islamia, New Delhi; Tata Institute of Social Sciences, Bombay.

Medical & Technological Institutes of National Importance: All India Institute of Medical Sciences, New Delhi; Postgraduate Institute of Medical Education & Research, Chandigarh; Indian Institute of Technology, New Delhi, Kanpur, Madras, Kharagpur, Bombay; Dakshina Bharat Hindi Prachar Sabha, Madras; Hindi Sahitya Sammelan, Allahabad; Indian Statistical Institute, Calcutta.

OTHER EDUCATIONAL INSTITUTIONS

ANDHRA PRADESH

Administrative Staff College of India, Bella Vista, Hyderabad 500475. Provides trg. to senior executives from private & public sectors and Govt.; management consultancy and computer services; conducts research in management problems.

American Studies Research Centre, Library Bldg., Osmania Univ., Hyderabad 500007. Maintains a comprehensive library on American civilisation for the benefit of Indian scholars and teachers.

Bharatiya Vidya Bhavan, 5-9-1105, Hyderguda, Hyderabad 500001.

Community Devpt. & Panchayati Raj, State Instt. of, Rajendranagar, Hyderabad 500030.

Economics, Indian Instt. of, Himayatnagar, Hyderabad 500029.

English & Foreign Languages, Central Instt. of, Hyderabad 500007. An autonomous Institution deemed to be a University attempts to improve the teaching of English and foreign languages and their literatures. It offers M.Litt. and Ph.D. courses in English, in the areas of Linguistics & Phonetics, English Language Teaching and English Literature; M.Litt. course in German; Postgraduate Diploma Courses in the Teaching of English and German & in English Studies; M.A. in French, German & Russian (by correspondence-cum-attendance); Postgraduate Certificate courses in the Teaching of English (by correspondence), French, German and Russian; and Certificate of Proficiency, Diploma and Advanced Diploma courses in French, German and Russian.

Food Craft Instt., CTI Campus, Vidyanagar, Hyderabad 500768.

Foreign Studies Guidance & Service Bureau, 2-1-488, New Nallakunta, Hyderabad 500020.

Geoscience, Indian Academy of, C/o Geology Deptt., Osmania Univ., Hyderabad 500007.

Industrial Safety & Productivity, Instt. of, A. C. Guards, Hyderabad 500004.

Instructors, Central Training Instt. of, I. T. I. Bdg., Mallepally, Hyderabad 500001.

Leadership Trg., McGrath Instt. of, Mathrusri Apts., Hyderguda, Hyderabad 500001.

Marketing Trg. Centre for Market Secretaries, 5-8-493, C. A. Lane, Hyderabad 500001.

Medical Sciences, Instt. of, Osmania Medical Coll., Sultan Nazar, Hyderabad 500001.

Nutrition, National Instt. of (ICMR), Jamia Osmania, Hyderabad 500007. Principal research and trg. centre on

Nutrition for South & South East Asia. Publications include *Nutrition* (*Quarterly*), Diet & Nutrition Atlases of India.

Plant Production Trg. Instt., Central, Rajendranagar, Hyderabad 500030.

Preventive Medicine, Instt. of, Narayanguda, Hyderabad 500029.

Public Enterprises, Instt. of, New Bldg., Zainyar Jung Circle, Osmania Univ. Campus, Hyderabad 500007.

Sanskrit Vidyapeeth, Kendra, Tirupati 517501.

Science, Andhra Pradesh Academy of, Ex-Physiology Block, Osmania Univ., Hyderabad 500007.

Science Assocn., Hyderabad, 36, Asifnagar, Hyderabad 500012.

Science Socy., Hyderabad, 12-2-460, Malkapur, Asifnagar, Hyderabad 500028.

Small Industry Extension Trg. Instt., Yuosufguda, Hyderabad 500045. Provides trg. in small industry devpt., management, behavioural sciences & extension ; undertakes research & consultancy in related fields and provides documentation service to the small industry.

Tool Design, Central Instt. of, (Govt. of India Socy.), Balanagar, Hyderabad 500037. Trg. of tool designers & tool makers, design & manufacture of tools, dies and moulds, etc.

Village Devpt. Officers Trg. Centre, Rajendranagar, Hyderabad 500030.

ASSAM

Engineering and Technology, H. R. H. The Prince of Wales Instt. of, Jorhat 785001.

Historical Instt., Narayani Handiqui, Gauhati 781001.

Science Socy., Assam, Panbazar, Gauhati 781001.

BIHAR

Agricultural Sciences, Bihar Academy of, P.O. Sabour, 813210.

Cultural Studies, Indian Instt. for, P. O. Mandar Vidyapith, Bhagalpur Dist.

Foundry & Forge Technology, National Instt. of, P.O. Hatia, Ranchi 834003. Imparts industrially oriented specialised trg. on foundry, forge and related fields ; offers Adv. Dip. Course of 18 months duration, Post Graduate Programme through research for engrs. working in industries and undertakes research development work pertaining to foundry and forge ; carries out consultancy services for developing newer techniques for production, control and inspection of castings & forgings.

Industrial Designs, Instt. of, Patna 800001.

Mine Planning and Design Instt., Central, Darbhanga House, Ranchi 834001.

Nava Nalanda Mahavihara, Nalanda 803111. Postgraduate and research Instt. in Pali, Buddhist Studies, philosophy and ancient Indian and Asian studies.

Personnel Management, Indian Instt. of, 36, Tisco Guest House Annexe, Jamshedpur 831001.

Public Health Instt., Patna 800004.

Rural Instt., Birouli 848113, Darbhanga Dist.

Vaccine Instt. and Pasteur Instt., Government, Namkum, Ranchi 834010.

Yogoda Sat-Sanga Vidyalaya, Club Rd., Ranchi 834001.

DELHI

Administrative Management, Instt. of, X-34, pura Extension, New Delhi-110014. (1) The Instt. liaison with Admive. Management Socy. of U.S.A., Syst & Procedures Assn. of U.S.A. & Instt. of Admive. Manag ment of U.K. ; (2) It disseminates knowledge about mod techniques ; (3) It renders assistance in designing for internal use ; (4) It conducts Associateship exami in Admive. Management twice a year ; (5) A C Course in Office Supervision for graduate women is conducted in collaboration with the Delhi Univ.

Adult Education Assocn., Indian, 17-B, Indra Marg, New Delhi 110001.

Architecture, School of Planning &, 4, Bl Indraprastha Estate, New Delhi 110001.

Audio-Visual Education, National Instt. of, prastha Estate, New Delhi 110001.

Bharatiya Vidya Bhavan, K. Gandhi Mrg., New 110001.

Book Trust, National, A-5, Green Park, New 110016. An autonomous body to organise exhibitions book fairs at home and abroad ; arrange seminars workshops on problems connected with writing, tra tion, publication and distribution of books ; publ books in several series including *India — The Land the People, National Biography, Nehru Library for Ch Young India Library, Folklore of India, Popular Scienc* in English and various Indian languages.

Chinese Studies, Centre for, Delhi Univ., Delhi 11

Constitutional and Parliamentary Studies, Instt. of, 18, Vithalbhai Patel Marg, New Delhi 110001.

Crafts, Swami Sivananda Memorial Instt. of Fine Arts &, (Vocational Trg. Centre), Rd. No. 31, East A Punjabi Bagh, New Delhi 110026.

Creative Intelligence, Maharishi Instt. of, C Defence Colony, New Delhi 110024.

Criminology, Instt. of Forensic, E-12/3, Vasant New Delhi 110057.

Developing Societies, Centre for the Study of, 29, Rajpur Rd., Delhi 110006.

Economic Growth, Instt. of, Univ. Enclave, 110007.

Education, National Instt. of, (NCERT — N Council of Educational Research & Trg.). Sri Aur Marg, New Delhi 110016.

Education, Public Enterprises Centre for Continuing, C/o Guest House, C-6/5, Safdarjung Devpt. New Delhi 110016.

Educational Planning and Adm., Asian Instt. of, B/17, Arvindo Mrg., New Delhi 110030.

Foreign Languages, Instt. of, 1/3, NDS, Lajpat New Delhi 110024.

Foreign Trade, Indian Instt. of, Ashok Bhavan, Nehru Place, New Delhi 110024. Its principal include (1) trg. of personnel in foreign trade & business management (2) functional research (3) mkt. studies, area surveys (4) consultancy and (5) & dissemination of information relating to India's trade.

Health Administration & Education, Nat Instt. of, E-16, Greater Kailash I, New Delhi

Health and Family Welfare, National Instt. of L-17, Green Park, New Delhi-110016 — an

Insttn. for augmenting, promoting and providing expertise and knowledge in the field of national health and family welfare plng. programmes. The Instt. undertakes research in Social Sciences, Communication, Statistics, Demography, Public Health Admn., Information and Documentation.

Home Economic, Instt. of, NDSE, Part I, New Delhi 110049.

Hotel Management, Catering and Nutrition, Instt. of, Pusa Institute, New Delhi 110012.

Indology, Instt. of, 24E, N. Subash Mrg., Delhi 110006.

International Studies, Indian School of, 35, Ferozeshah Rd., New Delhi 110001.

Islamic Studies, Indian Instt. of, Panchkuin Mrg., New Delhi 110001.

Jamia Rural Instt., Jamia Millia, New Delhi 110025.

Kendriya Vidyalaya Sangathan, Nehru House, Bahadur Shah Zaffar Mrg., New Delhi 110002.

Labour Instt., National, AB-6, Safdarjang Enclave, New Delhi 110016. It provides advanced trg. to officers of Central & State Govts., Public Sector Undertakings & nominees of the foreign Govts. (Asian & African Countries) in practices & techniques of Labour Adm. It also undertakes research in Labour relations matters.

Ladakh Bauddha Vihara, Bela Rd., Delhi 110006.

Management Devpt. Instt. (Sponsored by the Industrial Finance Corpn. of India), F-45, South Extension Part I, New Delhi 110049. Provides trg. in modern management techniques ; undertakes research in industrial and business management, development banking and related subjects. The Devpt. Banking Centre offers technical assistance to development financing/promotional institutions and banks, within and outsde the country, in the areas of organisational structure and information system, staff recruitment, "In-house, training and manpower development."

Mass Communication, Indian Instt. of, D-13, South Extn., Part II, New Delhi 110049. Trg. programmes (duration ranging from one week to ten months) held in New Delhi and regional centres aim at improving professional knowledge, technical skills and motivations of personnel working in newspapers, broadcasting & T. V. stns., information & publicity deptts. Open to Indian and foreign students. Conducts seminars & symposia and provides professional advice on problems of manpower & infrastructure. Undertakes research for a better understanding of media operations and communication process in different social and cultural contexts. Instt.'s specialised library and documentation unit helps researchers. Quarterly journal : *Communicator.*

Medical Sciences, Indian Academy of, C-11/16, Ansari Nagar New Delhi, 110016.

Orthopaedics, Central Instt. of, Safdarjung Hospital, New Delhi 110016.

Planning & Management, Indian Instt. of, B-160, Chittaranjan Park, New Delhi 110019.

Population Council of India, 53, Lodi Estate, New Delhi 110003.

Press Instt. of India, Sapru House Annexe, Barakhamba Rd., New Delhi 110001. Set up in 1963 by Indian newspapers to help the press improve itself through regular seminars, workshops, courses, consultancies, field study tours, publications, research studies etc. for young & promising editorial & managerial personnel.

Public Administration, Indian Instt. of, Indraprastha Estate, Ring Rd., New Delhi 110001.

Public Co-operation and Child Devpt., National Instt. of, 92, Nehru Place, New Delhi 110024.

Public Finance and Policy, National Instt. of, 12, Rajendra Place, Pusa Rd., New Delhi 110008. *Functions :* Continuous study of the fiscal system and measurement of the effects of budgetary policy on the economy ; trg. of officials of the Union, State and Local Govts.

Rail Transport, Instt. of, Transport Bhavan, New Delhi 110001. The Instt. functions in close collaboration with the Indian Railways to promote and foster the science and art of rail transport and management.

Russian Studies, Instt. of, J. L. Nehru Univ. Campus, Sri Aurovindo Marg, New Delhi 110022.

School Certificate Examinations, Council for the Indian, C-52, Nizamuddin East, New Delhi 110013.

Science & Culture, Instt. of Advancement of, J-22, Haus Khas Enclave, New Delhi 110016.

Science Education, National Council for, Sri Aurobindo Ashram, Sri Aurobindo Mrg., New Delhi 110016.

Scientific & Technical Literature, Indian Council for Promotion of, 89, Mohan Singh Plot, Kharak Singh Mrg., New Delhi 110001.

Social Defence, National Instt. of, Deptt. of Social Welfare, West Block-1, Wing-7, Ramakrishnapuram, New Delhi 110022. Advises the Central and State Govts./ Union Territory Admns. on social defence problems and provide technical services facilities for preparation of schemes, formulation of projects, drafting of legislation etc., etc.

Social Instt., Indian, Lodi Rd., New Delhi 110003. Purpose : Research ; publications ; labour welfare & management courses ; trg. in co-opn.; promotion & organisation of socio-economic projects ; family life education. Publication : *Social Action* (Quarterly).

Statistical Instt., Indian, J-19, Haus Khas, New Delhi 110016.

Technology, Centre for Devpt. of Instructional, 3, Birbal Marg, New Delhi 110014.

Technology, Indian Instt. of, Haus Khas, New Delhi 110016.

Tibetan Schools Socy., Curzon Rd. Barracks, New Delhi 110001.

United States Educational Foundation in India, 12, Hailey Rd., New Delhi 110001.

Universities, Assocn. of Indian, Rouse Ave., New Delhi 110002.

Vallabhbhai Patel Chest Instt., Univ. of Delhi, Patel Mrg., Delhi 110007.

Zoology Centre of Advanced Study, Univ. of Delhi, Delhi 110007.

GOA

Cancer Socy., Goa, Govt. Pestana Rd., Panaji 403001.

Food Craft Instt., P.O. Betim 403101, Bardez, Goa.

Public Assistance (Provedoria), Instt. of, Panaji 403001.

GUJARAT

Agricultural Instt., Government, Anand 388001.

Area Planning, Gujarat Instt. of, New Brahmkshatriya Socy., Pritamrai Marg, Ahmedabad 380006. Undertakes studies, projects and research in the field of rural and regional development & planning.

Ayurvedic University, Gujarat, Dhanwantri Mandir, P.O. Box No. 511, Jamnagar 361001.

Co-operative Management, Instt. of, 9, Brahmin Mitra Mandal Socy., Ellisbridge, Ahmedabad 380006.

Design, National Instt. of, Paldi, Ahmedabad 380007. An autonomous national insttn. for research, service and edn. in Design set up by the Govt. of India, Min. of Industry. The professional edn. programme in Indl. Design (Product Design, Furniture Design, Ceramic Design, Textile Design), Visual Communication (Graphic Design, Typography, Photography, Film & Sound) and Environmental Design (Experimental Architecture, Landscape Design, Interior Design, Exhibition Design), lasts for 5½ years leading to a Diploma in Design recognised by the Min. of Edn., Govt. of India. The Instt. has a multiple entry system where the students could join at any level depending on previous competence and achievements.

Education Socy., Ahmedabad, Lal Bhavan, Bhadra, Ahmedabad 380001.

Engineering College — Birla Vishvakarma Mahavidyalaya, P.B. No. 20, Vallabh Vidyanagar 388120, Kaira Dist.

Environmental Planning & Technology, Centre for, Univ. Rd., Ahmedabad 380009.

Export, Indian Instt. of, Sayajiganj, Vadodara 390005.

Food Craft Instt., Govt. Polytechnic Compound, Ahmedabad 380015.

Homoeopathic Instt., Gujarat Rajya, 702/9, Seth Mangaldas Rd., Ahmedabad 380006.

Homoeopathic System of Medicine, Gujarat Council of, Civil Hospital Bldg., Ahmedabad 380016.

Management, Indian Instt. of, Dr. Vikram Sarabhai Rd., Vastrapur, Ahmedabad 380015. *Dir.:* Dr. Samuel Paul.

Management Studies, All India Instt. of, 14, Lal Baug Society, Vadodara 390004.

Occupational Health, National Instt. of, Meghani Nagar, Ahmedabad 380016.

Oriental Instt., Smt. Hansa Mehta Library Bldg., Tilak Rd., Vadodara 390001.

Political Science, Harold Laski Instt. of, Mavlankar Haveli, Bhadra, Ahmedabad 380001. The Instt. encourages & facilitates the scientific study of political and allied questions & problems. *Founder-Dir.:* Prof. P. G. Mavlankar.

Public Administration, Sardar Patel Instt. of, (Govt. of Gujarat), New Civil Hospital Annexe, Meghaninagar, Ahmedabad 380016.

School Textbooks, Gujarat State Board of, 29, Duffnala, Ahmedabad 380004.

Space Applications Centre, Jodhpur Tekra, Ahmedabad 380009.

Vocational Guidance, Instt. of, Behind H. L. College of Commerce, Narayan Park, Navrangpura, Ahmedabad 380009.

HIMACHAL PRADESH

Advanced Study, Indian Instt. of, Rashtrapati Niwas, Simla 171005.

JAMMU & KASHMIR

Skiing & Mountaineering, Indian Instt. of, G[illegible], 193403.

KARNATAKA

Adult Education Council, Karnataka State, Idgah, Krishnamurthypuram, Mysore 570004.

Ayurved Vidyapeeth Socy., Karnataka, K[illegible], Belgaum 590001.

Bharatiya Vidya Bhavan, R. C. Rd., Bangalore 56[illegible]

Biological Control, Commonwealth Instt. of, Hebbal, Bangalore 560009.

Bowring Instt., 19, St. Mark's Rd., Bangalore 56[illegible] Post-graduate and research instt. for medicine.

Education Socy., Mysore, 15th Cross, Malleswaram, Bangalore 560003.

Education Socy. of Mysore, National, Basavangudi, Bangalore 560004.

English, Regional Instt. of, (South India), 6A, Cunningham Rd., Bangalore 560052. Estd. in 1963 by the Govts. of A.P., Karnataka, Kerala & Tamil Nadu in collaboration with the British High Commission, British Council Divn., with the primary aim of offering diversified trg. to teachers and key personnel in the field of English language teaching in these States.

Food Craft Instt., S. J. Polytechnic Bldgs., Seshadri Rd., Bangalore 560001. Jointly sponsored by the Govt. of India and the Govt. of Karnataka to train men and women for catering industry.

Foremen Trg. Instt. (Govt. of India/Min. of Labour), Tumkur Rd., P. B. 2232, Bangalore 560022.

Genetic Studies, Instt. for, 230, 12th Cross, Wilson Gardens, Bangalore 560027.

Indian Languages, Central Instt. of, Manasa Gangotri, Mysore 570006.

Management, Indian Instt. of, 33, Langford Rd., Bangalore 560027.

Management Studies, Kousali Instt. of, Karnataka Univ., Dharwar 580003.

Mental Health & Neuro Sciences, National Instt. of, Post Bag No. 2779, Hosur Rd., Bangalore 560027. Conducts the following post-graduate courses: (*i*) M. D. Degree in Psychological Medicines; (*ii*) M. Ch. Degree in Neurosurgery; (*iii*) D. M. Degree in Neurology; (*iv*) Diploma in Psychological Medicine (DPM); (*v*) Diploma in Medical & Social Psychology (DM & SP); (*vi*) Ph.D. in Clinical Psychology; and (*vii*) Diploma in Psychiatric Social Work (DPSW). The Institute is affiliated to the Bangalore Univ. Post-certificate course in Psychiatric Nursing (DPN) is also conducted at the Institute. The diploma is recognised by the Govt. of India and the Indian Nursing Council.

Production Engineers, Insttn. of, C/o W[illegible] G. Venkateshwaran, 15, Eagle St., Langford [illegible] Bangalore 560026.

Public Affairs, Gokhale Instt. of, N[illegible] Colony, Bangalore 560019.

Religion & Socy., Christian Instt. for the Study of, 17, Miller's Rd., Bangalore 560046.

Science, Indian Instt. of, Bangalore 560012. [illegible] Institute has the status of a University.

Serum Instt., Mysore, Hebbal, Bangalore [illegible]

Social & Economic Change, Instt. for, Nagarbhavi, Bangalore 560040. An all India Instt. for inter-disciplinary research & trg. in social sciences.

Social Sciences, National Instt. of, 40, Wellington St., Richmond Town, Bangalore 560025.

Speech and Hearing, All India Instt. of, Mansa Gangothri, Mysore 570006.

Statistical Instt., Indian, 112, 11th Cross, Malleswaram, Bangalore 560003.

Technical Education Socy., Mysore, 4th Block, Rajajinagar, Bangalore 560010.

Technical & Management Education, Socy. of, Bank of India Bldg., K. G. Rd., Bangalore 560009.

Technological Instt., Shri Krishnarajendra Silver Jubilee, Krishnarajendra Circle, Bangalore 560001.

Tuberculosis Instt. of India, National, Avalon, Bellary Rd., Bangalore 560003. 1. Studies epidemiology of tuberculosis; 2. Formulates & evolves T.B. Control Programme; 3. Offers twice a year a 13-week trg. course to T.B. control teams deputed by State Govts.; accepts under-graduate and post-graduate medical students (from several universities) for orientation trg.

Vidyasala Assocn., Bharathi, Ambika Cloth Mkt. Bldg., D. K. Lane, Bangalore 560053.

World Culture, Indian Instt. of, 6, B. P. Wadia Rd., Basavangudi, Bangalore 560004.

KERALA

Fisheries Project, Integrated (Indo-Norwegian), (Govt. of India), Foreshore Rd., Cochin 682016. Experimental diversification in fishing methods; popularising fishery products in internal and external mkts.; trg. of technical personnel for fishing industry.

Fisheries, Nautical & Engineering Trg., Central Instt. of, Dewan's Rd., Ernakulam, Cochin 682016.

Fisheries Technology, Central Instt. of (CIFT), (under I.C.A.R.), Wellingdon Island, Cochin 682003. Sub-Stns.: Veraval (Gujarat), Kakinada (Andhra Pradesh), Burla (Orissa). Units: Calicut (Kerala), Panaji (Goa) & Madras.

Food Craft Instt., Kalamassery, Alwaye 683104.

Law Academy, Kerala, Peroorkada, Trivandrum 695005.

Medical Centre, Sree Chitra Tirunal, Trivandrum 695011. Autonomous institute set up by the Govt. of Kerala for service, research and trg. in cardiology and neurology.

Natana Niketanam, Paliam Rd., Vadakke Angady, Trichur 680001. Teaches dancing and fine arts exclusively to girls.

Nautical Studies, Kerala Instt. of, Vizhinjam 695521.

Supervisory Devpt., Instt. of, Angamali 683572.

MADHYA PRADESH

Earth & Environmental Sciences, Academy of, School of Studies in Geology, Vikram Univ., Ujjain 456001.

Technological Instt., Shri Govindram Seksaria, Opp. Nehru Park, Indore 452001.

MAHARASHTRA

Adult Education Assocn., Bombay, 136, Apollo St., Bombay 400023.

Alliance Francaise De Bombay, French Bank Bldg., 21, Homji St., Bombay 400001.

Ambulance, College of, Bombay City Ambulance Corps. 21, New Marine Lines, Behind Govt. of India Offices, Bombay 400020. Insructor's courses in advanced First Aid and home nursing.

Anglo-Scottish Education Socty., 6, Purshottam Thakurdas Mrg., Bombay 400001.

Apprentice School, Dockyard, Naval Dockyard, Fort, Bombay 400023. Dockyard Apprenticeships are offered to boys between 14–19 years under Apprenticeship Act, 1961 twice yearly in March and September. Competitive examinations and interviews are held in various recruiting centres in India. Period of apprenticeship three years.

Architecture, Academy of, Plot No. 278, Shankar Ghanekar Mrg., Prabhadevi, Bombay 400025.

Art, Sir Jamsetjee Jeejeebhoy School of, Dr. D. Naoroji Rd., Bombay 400001.

Asian Studies, Indian Instt. of, 23, Azad Nagar, J. Prakash Rd., Bombay 400058.

Bank Management, National Instt. of, 85, L. Jagmohandas Mrg., Bombay 400006. Serves as the apex research and trg. institution of the banking system.

Bankers, Indian Instt. of, State Bank Bldg., Apollo St., Bombay 400023.

Bharatiya Vidya Bhavan, Kulapati K. M. Munshi Marg, Bombay 400007. Founded in 1938 by late Kulapati Dr. K. M. Munshi; is devoted to the promotion of education, art & culture, having branches all over India and London (U.K.).

Building Industries, Vazifdar College of, 17, Arthur Bunder Rd., Colaba, Bombay 400005.

Catering Technology and Applied Nutrition, Instt. of, Veer Sawarkar Marg, Bombay 400028.

Cercle Litteraire Bibliotheque, Dinshaw Petit— 60, Forbes St., Bombay 400001. *Object:* To promote the study of French language, literature & civilization; Library & Reading Room.

Commerce, Alexandra College of, Prospect Chambers Annexe, Dr. D. Naoroji Rd., Bombay 400001.

Commerce, Davar's College of, 51, M. Gandhi Rd., Bombay 400023.

Commerce, Laxmi College of, Sharadashram Vidyamandir, Dadar, Bombay 400028.

Communication Studies, Rajendra Prasad Instt. of, Kulapati K. M. Munshi Rd., Bombay 400007.

Community Health, Foundation for Research in, 48-A/R, G. Thadani Mrg., Bombay 400025.

Computing Techniques, National Centre for Software Development, Tata Instt. of Fundamental Research, Homi Bhabha Rd., Bombay 400005. Providing assistance to computing activities in India to develop systems & applications software and generalised software packages in all areas of computing including graphics & computer-aided design; organising specialised advanced courses in computer science & technology; design of multiprocessor networks and devpt. of digital data communication technology in general.

Co-operative Management, Vaikunth Mehta National Instt. of, Reserve Bank Bldg., Ganeshkhind Rd., Pune 411016.

Creative Intelligence, Maharishi Instt. of, Navyug Nivas, Lamington Rd., Bombay 400007 and at 29, Satya Apartments, Naupada, Thane 400602.

Education, Audiology & Research Centre, 67, L. Jagmohandas Mrg., Bombay 400006.

Education, Indian Instt. of Workers', Adarshnagar, Worli, Bombay 400025.

Education, Council for Economic, 125, Wodehouse Rd., Bombay 400005.

Education Committee, Bombay City Social, Samaj Shikshan Mandir, Adarsha Nagar, Worli, Bombay 400025.

Education Socy., Bombay Higher, Mistry Court, Dinshaw Wachha Rd., Bombay 400020. To provide & promote higher edn. by giving financial aid to the needy and deserving students belonging to the educationally-backward communities.

Education Socy., Deccan, Fergusson Coll., Pune 411004.

Education Socy., Mahatma Phule, Bhoiwada, Parel, Bombay 400012.

Education Socy., People's, Anand Bhavan, Dr. D. Naoroji Rd., Bombay 400023. To promote higher edn. amongst the poorer people in general & the backward classes in particular. The Society runs 4 Colleges, 3 Diploma Institutes, 1 Night High School, 1 Buddhist Centre & a Research Centre in Bombay; 4 Colleges, 2 High Schools & a Buddhist Centre at Aurangabad and 1 College at Mahad; 1 High School & 1 Backward Classes Hostel at Pandharpur & 1 Backward Classes Hostel at Dapoli (Ratnagiri Dist.). The Society gives annual grant-in-aid to the Backward Classes Hostel at Manmad, Nandurbar, Chalisgaon, Pune, Mahad, Nipani, Dholka, Patan, Vasamat & Kankavli.

Education Socy., Prince Shivaji, Sykes Extension, Kolhapur 416001.

Electrical Measuring Instruments, Instt. for Design of, Adjoining Eastern Express Highway, Chunabhatti, Kurla, Bombay 400070. Set up by the Govt. of India under U.N. Assistance Programme for assistance in the development of Electrical Measuring, Process Control & Electronics instruments industry in the country.

Family Welfare Trg. & Research Centre, 332, Sardar V. Patel Rd., Bombay 400004.

Fire Service College, National, Nagpur 440001.

Fisheries Education, Central Instt. of, Kakori Camp, Jaiprakash Rd., Versova, Bombay 400058.

Food Craft Instt., Engg. Coll. Hostel Campus, Shivajinagar, Pune 411005.

Gemmological Instt. of India, C/o Gem & Jewellery Exporters Assn., Gurukul Chambers, Mumbadevi Rd., Bombay 400002. Provides facilities for study of gemmology & for testing weighment and valuation of gem stones of all kinds, thereby introducing scientific methods in the precious stones trade.

German Studies, Indian Instt. of (Max Mueller Bhavan), 14/3B, Boat Club Rd., Pune 411001 and Prince of Wales Museum Annexe, Bombay 400001.

Geomagnetism, Indian Instt. of, Colaba Observatory, Bombay 400005. An autonomous Instt. under Min. of Tourism and Civil Aviation, Govt. of India.

Grantha Sangrahalaya, Mumbaii Marathi, 172, Naigaum Cross Rd., Bombay 400014.

Handicrafts Devpt. Assocn., Indian, Nirmal Mahal, Bomanji Petit Rd., Bombay 400036. Trg. in designing furniture and decorative items in stone, metal etc.

Handmade Paper Instt., K. B. Joshi Rd., Pune 411005.

Harijan Girijan Samaj Unnati Mandal, Vidyashras Bhiwandi 421302, Thane Dist. Runs 60 ednl. instns. nearly 60 villages.

Industrial Engineering, National Instt. for Trainin in (NITIE), Vihar Lake Rd., Bombay 400087. NITI offers a two-year Post Graduate Programme in Industri Engineering recognised by the Government of India a equivalent to M. Tech., and also courses for senior an middle level executives ranging from 1 to 4 weeks duratio in various Industrial Engineering and Managemen techniques. Besides, the Institute is engaged in A Research and also offers Consultancy services in va facets of Industrial Engineering & Management.

Industrial Security, Instt. for Trg. in, Farmee Hous Shastri Marg, Vikhroli, Bombay 400083.

Labour Studies, Maharashtra Instt. of, (Govt. of Maharashtra), D. Chamarbaugwala Rd., Parel, Bomba 400012. Recognised by the Bombay Univ. as a post-graduate Instt. of specialised studies leading to 2-yea Univ. Masters' Degree in Labour Studies (M.L.S.). The course is open to candidates with a Bachelor's Degree of Bombay Univ. in any faculty or a degree of another Univ. recognized as equivalent thereto. The Instt. also guide students for Ph.D. and the admissions are open to th D.L.S. or M.L.S. students.

Leather Technology, Instt. of, Bombay 400051.

Literature, Arts, Crafts & Culture, Peoples University of, — Shri Shivaji Loka Vidyapitha, Shivaj Nagar, Morshi Rd., Amravati 444001.

Local Self-Government, All-India Institute of, 11. Horniman Circle, Bombay 400023.

Management, M.M.C. School of, Court Chamber New Marine Lines, Bombay 400020.

Management Studies, Jamnalal Bajaj Instt. of, 164. Backbay Reclamation, Bombay 400020.

Medical Sciences, Mahatma Gandhi Instt. of, Sevagram, Wardha 442102.

Naturopathy — Indian Instt. of Drugless Therapy. Sundar Mahal, V. Nariman Rd., Bombay 400020. Correspondence Course in nature cure.

Nritya Shree, 3, Dhake Colony, Jaiprakash Rd., A (West), Bombay 400058. Trg. in Kathakali, Bh yam and other classical and folk styles of dancing.

Occupational Therapy Trg. School and Centre. K. E. M. Hospital, Parel, Bombay 400012.

Oceanography, National Instt. of, Sea Shell Versova, Bombay 400061.

Oriental Instt., K. R. Kama, 136, Apollo St., Bo 400023.

Packaging, Indian Instt. of, E-2. Marol Indl. E P.O. MIDC, Andheri East, Bombay 400083. *Regnl. O* Madras.

Philosophy, Pratap Centre of, Amalner 425401.

Physical Education, Government College of. Kandivli West, Bombay 400067.

Politics and Economics, Gokhale Instt. of, D Gymkhana, Pune 411004.

Population Studies, International Instt. for, G Station Rd., Deonar, Bombay 400088. Sponsored the Govt. of India and the United Nations. It the regnl. centre for teaching and research in P Studies for the countries of Asia and the Pacific.

Puppetry, Indian Instt. of, Datta Nivas, Shivaji P Rd. No. 5, Bombay 400016.

Radio Electric Instt., Lamington Chambers, Dadasaheb Bhadkamkar Rd., Bombay 400004.

Road Transport, Central Instt. of (Trg. & Research), Pune Nasik Rd., Pune 411026.

Road Transport, Indian Instt. of, BEST House, Bombay 400039.

Sahakari Sangh, Maharashtra Rajya (Bombay Central Co-op. Instt.), 11, Bank St., Bombay 400023. Imparts co-op. edn. & trg. to co-op. society members and to co-operative movement workers.

Sanskrit Vishva Parishad, (World Academy of Sanskrit), Bharatiya Vidya Bhavan, K. Munshi Marg, Bombay 400007.

Science, Instt. of, 15, Cama Rd., Bombay 400032.

Shikshan Sanstha, Rayat, Satara 415001. Provides facilities for the edn. of the poor by providing means to earn while learning on the principle of self-help. The insttns. are conducted without distinction of religion, caste, creed or class. It conducts 19 colleges, 312 sec. schools (including 70 higher sec. schools), 7 primary trg. colleges, 74 hostels in the State. *Students on Roll :* 1,40,000; *Workers on Roll :* 6,500.

Shikshana, Prasaraka Mandali, S. P. College Bldgs., Pune 411030. The main object of the Society is to give edn. at moderate cost, by starting schools, colleges, etc.

Social Sciences, Tata Instt. of, Sion-Trombay Rd., Deonar, Bombay 400088. Founded by Sir Dorabji Tata Trust in 1936, this pioneer institution, which is deemed to be a university, offers programmes of trg. leading to the Ph.D. degree in Social Work/Social Sciences ; M.Phil. in Social Work/Social Sciences ; M.A. degree in Social Work in the fields of Criminology & Correctional Adm., Family & Child Welfare, Medical & Psychiatric Social Work, Urban & Rural Community Devpt., Social Welfare Adm., M.A. degree in Personnel Management & Industrial Relations, Post-graduate Certificate programme in Research Methodology.

Social Service, Instt. of, 38, New Marine Lines, Bombay 400020.

Social Service, Karve Instt. of, Hillside, Karvenagar, Pune 411029.

Statistical Instt., Indian, Nanabhai Mansion, Sir P. Mehta Rd., Bombay 400001.

Sugar Instt., Deccan, MSFC Bldg., 270, Senapati Bapat Rd., Pune 411016.

Technical Instt., Victoria Jubilee, Matunga, Bombay 400019.

Technology, Indian Instt. of, P.O.I.I.T., Powai, Bombay 400076. It provides instruction and facilities for research in various branches of science, engineering, technology, humanities & social sciences. It enjoys the Status of University. B.Tech. (Aero. Engg., Chem. Engg., Civil Engg., Elect. Engg., Mech. Engg. & Metallurgical Engg.) ; M.Tech. (Aero Engg., Chem. Engg., Civil Engg., Elect. Engg. including Electronics, Mech. Engg. & Metallurgical Engg.) ; Inter-disciplinary programmes in Industrial Engg. and Operations Research, Materials Science, Environmental Science & Engineering, and Systems & Control Engineering ; M.Sc. 5-year Integrated and 2-year (Post B.Sc.) (Chem. Math., Phys. & Applied Geology) ; Post-graduate Diploma course in Dock & Harbour Engg., Computer Science, Aeroengine Design ; Advanced Aerial Photo Interpretation ; Indl. Design & Applied Hydrology ; Ph.D. Programmes in Humanities, Sciences & Engg., Technology.

Textbook Production & Curriculum Research, Maharashtra State Bureau of, 'Balbharati', S. Bapat Mrg., Pune 411004.

Trade Centre, Indian International, 59, Jolly Maker Chambers I, Nariman Point, Bombay-400021. *Branch :* 310, Jolly Bhavan No. 2, New Marine Lines, Bombay 400020. Specialised in Trade Promotion, Trg., Market-Research, Intnl. Business Consultancy Services & Publications. Organises Post-Graduate Diploma Course in Export Business Management (DEBM) & Diploma Course in Intnl. Mktg. Management (DIMM). Also conducts short-term trg. courses in Intnl. Mktg., etc. *Branches :* New Delhi & Bangalore.

Transport Management, Patel Instt. of, 21, Lakozy Mansion, Chowpatty Seaface, Bombay 400007.

Veterinary & Biological Products, Instt. of, Pune 411007.

Workers' Education, Indian Instt. of, Adarsh Nagar, Worli, Bombay 400025.

ORISSA

Food Craft Instt., Sachivalaya Mrg., Unit 4, Bhubaneswar 751001.

Physics, Instt. of, A/105, Saheed Nagar, Bhubaneswar 751007.

PONDICHERRY

Post-graduate Medical Education & Research, Jawaharlal Instt. of, Pondicherry 605006.

PUNJAB

Engineering, National Instt. of, Hoshiarpur 146001

Medical Education & Research, Post-graduate Instt. of, Chandigarh 160011.

Physical Education & Sports, Socy. for the National Instts. of, Moti Bagh, Patiala 147001.

Polytechnic, J. R. Govt., Hoshiarpur, 146001.

Sports, Netaji Subhas National Instt. of, Motibagh, Patiala 147001.

Technical Teachers' Trg. Instt., Sector 26, Chandigarh 160019.

Textile Chemistry & Knitting Technology, Govt. Instt. of, Dressi Rd., Old Fort, Ludhiana 141001.

RAJASTHAN

Homoeopathy Assocn., Rajasthan, New Colony, Jaipur 302001.

Public Administration, H.C.M. State Instt. of, J. L. Nehru Mrg., Jaipur 302004.

Sciences, Rajasthan Academy of, Birla Coll., Pilani 333031.

Technology & Sciences, Birla Instt. of, Pilani 333031.

Vidyapith, Banasthali, P.O. Banasthali Vidyapith 304022. All India residential insttn. imparting all-round edn. to girls from nursery to post-graduate and research stage with faculties of Arts, Science & Education.

Vidyapith, Saraswati, Tipta, Kota 324001.

TAMIL NADU

Adult Education, Regional Council for, 274, Linghi Chetty St., Madras 600001.

Advanced Trg. Instt. (A Govt. of India — ILO Project), Guindy, Madras 600032. Offers programmes of short duration for upgrading and updating the skills of workers.

Anatomy, Instt. of, Madras Medical College, Park Town, Madras 600003.

Ayyappa Arts Academy, 35/36, Arunachala Acharya St., Madras 600005.

Bala Sevika Trg. Instt., C/o Indian Council of Child Welfare, 1, Prakasa Mudali St., T. Nagar, Madras 600017.

Catering Technology and Applied Nutrition, Instt. of (Govt. of India & Govt. of T.N.), Adyar, Madras 600020.

Ceramic Technology, Instt. of, Vriddhachalam 606001.

Co-operative & Vocational Education, State Instt. of, Post R.E.C., Tiruchirapalli 620015.

Development Studies, Madras Instt. of, 74, 2nd Main Rd., Gandhinagar, Madras 600020.

Educational Assocn. of Southern India, Muslim, 49, Peters Rd., Royapettah, Madras 600014.

Engineering Technology, Indian Instt. of, 70/4L, Arcot Rd., Madras 600024.

Engineering Trg. Centre, Hindustan, 40, North Parade Rd., Madras 600016.

Film Acting, Instt. of, Southern India Film Chamber of Commerce, 122, Mount Rd., Madras 600006.

Film Technology, Instt. of, Adyar, Madras 600020.

Financial Management and Research, Instt. for, 3, Kothari Rd., Nungambakkam, Madras 600034.

Fine Arts, International College of, 35/36, Arunachala Achari St., Triplicane, Madras 600005.

Fisheries Co-operatives, Central Instt. of, 81, S. N. Chetty St., Royapuram, Madras 600013.

Footwear Trg. Central (Min. of Industry, Govt. of India), 65/1, Grand Southern Trunk Rd., SISI Campus, Madras 600032.

Forensic Science & Chemical Laboratory, Tamil Nadu, South Beach Rd., Madras 600004.

Home Science College for Women, Sri Avinasilingam, Coimbatore 641011.

Human Relationship, Gandhi Lincoln Instt. of, Gandhigram 624302. (Madurai Dist.).

Industrial Engineering, Trg. Instt. for Productivity In, No. 1, Dr. A. C. Rd., Madras 600084.

Industrial & Fiscal Economics, Indian Socy. of, Univ. of Madras, Madras 600005.

Instructors, Central Trg. Instt. of, Industrial Estate Guindy, Madras 600032.

Kalakshetra — College of Fine Arts, Thiruvanmiyur Madras 600041.

Labour Instt., Regional, Adyar, Madras 600020.

Leather Technology, Instt. of, Adyar, Madras 600020.

Management, Instt. of, Shanmugha Mandram, Race Course, Coimbatore 641018.

Marine Biology Centre for Advance Studies, Annamalai Univ., Parangipettai 608502.

Mathematical Sciences, Instt. of, Central Polytechnic Bldgs., Madras 600020.

Music Academy, Madras, 115-E, Mowbray's Rd., Madras 600014.

P. S. G. & Sons Charity Industrial Instt., Peelamedu Post, Coimbatore 641004.

Pasteur Instt. of Southern India, Coonoor 643103.

Plastics, Engineering and Tools (Min. of Chemi & Fertilisers), Central Instt. of, Guindy, Ma 600032. (Also see under Govt. Ind. Undertakings).

Printing & Graphic Arts, Indian Academy 'Sudha Sindhu', 8, Second St., Subramania Madras 600024.

Prototype Devpt. & Trg. Centre (NSIC), B-24, Guindy Indl. Estate, P.O. Ekkaduthangal, Ma 600097.

Ramakrishna Mission Vidyalaya, Sri, Sri Ra krishna Vidyalaya P.O. 641020, Coimbatore Dist.

Regional Testing Laboratory, Ind. Estate, K. Pu Madurai 625007.

Rural Health and Family Planning, Gandhigr Instt. of, P.O. Ambathurai R. S. 624309, Madurai

Sanskrit Academy, Sanskrit College Bldgs., Mylap Madras 600004.

Science Trust, Divine, 26, K. K. Rd., Ambattur, Ma 600053. An educational trust for the advancemen science of Visishtadvaita.

Seva Sadan, Madras, 5, Harrington Rd., [illegible] Madras 600031. Runs high School, office [illegible] course, Industrial School, Working Women h[illegible] for the destitute and deserted women.

Tamil Studies, International Instt. of, C.I.T. Cam Adyar, Polytechnic, Madras 600020.

Technical Teachers' Trg. Instt. (S. Region), of India, Min. of Education), Adyar, Madras [illegible].

Technology, Coimbatore Instt. of, P.O. A[illegible] Coimbatore 641014.

Technology, Indian Instt. of, Madras 600036.

Technology, Madras Instt. of, P.O. Chromepet, Ma 600044.

Technology, Seshasayee Instt. of, Ariy[illegible] Tiruchirapalli 620010.

Tuberculosis Instt., Government, Spur T[illegible] Chetput, Madras 600031.

Veterinary Assocn., Indian, 10, Avenue Rd., [illegible] 600034.

Vivekananda Kendra, Vivekanandapuram, Ka kumari 629702. Teaches Sanskrit and Yoga besides [illegible] ing the Vivekananda Rock Memorial.

Vocational Education, State Instt. of Co-op., REC, Tiruchirapalli 620015.

UTTAR PRADESH

Creative Intelligence, Maharishi Instt. of, [illegible] racharya Nagar, Rishikesh 249201.

Earthquake Engineering, School of Research Trg. in, Univ. of Roorkee, Roorkee 247667.

Fisheries Operatives, Regnl. Trg. Centre for Inlan Raja Niketan, P.O. Bldgs., Civil Lines, Delhi Gate, A 282002.

Food Craft Instt., 18-B, Ashok Marg, Lucknow

Forest Academy, Yoga Vedanta, Divine Life P.O. Sivanandanagar 249192, Tehri Garhwal

Gandhian Studies, Instt. of, Rajghat, Varanasi

Kashi Vidyapith, Varanasi 221001.

Kashiraj Trust, All India, Fort [illegible] 221001. *Objects :* Advancement and propagation Sanskritic learning & Indology

Ophthalmology, Instt. of, Gandhi Eye Hospital, Aligarh 02001.

Oriental Philosophy, Instt. of, Vrindaban 281121, Iathura Dist.

Paper Technology, Instt. of, Saharanpur 247001.

Petroleum, Indian Instt. of, P. O. 11P, Dehra Dun 48005. *Projects Divn.:* CSIR Complex, 5th Flr., Library ld., Pusa, New Delhi 110012. *Proteins Project:* C/o ujarat Refinery, P.O. Jawahar Nagar 391320.

Photo-Interpretation Instt., Indian (National Remote ensing Agency), Kalidas Rd., Dehra Dun 248001.

Population Centre, Ram Sagar Misra Nagar, Faizabad ld., Lucknow 226001.

Sanskrit Vidyapeetha, Ganganatha Jha Kendriya, Iotilal Nehru Park, Allahabad 211001.

Sanskrit Vishwa Vidyalaya, Varanaseya, Varanasi 21001. Teaching-cum-affiliating. Has the richest collection of Sanskrit Manuscripts.

Sciences, India, National Academy of, 5, Lajpat lai Rd., Allahabad 211002.

Soil Science, Sheila Dhar Instt. of, Univ. of llahabad, 2-D, Beli Rd., Allahabad 211002.

Technological Instt., H. B., Company Gardens, Kanpur 208001.

Technology, Indian Instt. of, Kanpur 208016.

Textile Instt., Govt. Central, Parbati Bagla Rd., Kanpur 208001.

Vijnana Parishad, Thornhill Rd., Muir College Bldgs., llahabad 211002.

Viswavidyalaya, Gurukul Kangri, P. O. Gurukul, Kangri 249404 (Saharanpur Dist.).

Work Study, Defence Instt. of, Landour Cantt., Iussoorie 248179.

WEST BENGAL

Adult Education Assocn., West Bengal, Student Iall, 1/2A, College Square, Calcutta 700012.

Animal Husbandry & Dairying, State Instt. for, Iaringhata Farm, P.O. Mohanpur 741246, Nadia Dist.

Asian & African Relations, Instt of, 57/B, Beltola ld., Calcutta 700025.

Bharatiya Vidya Bhavan, 1/1, Meredith St., Calcutta 00013.

Bratachari Socy., Bengal, 191/1, B. B. Ganguly St., alcutta 700012. Trg. in physical education, work education and social service under the system of Bratachar education founded by late Gurusaday Dutt.

Catering Technology and Applied Nutrition, Instt. of, 21, Convent Rd., Calcutta 700014.

Child Health, Instt. of, 95, Dilkhusa St., Calcutta 700017.

Computer Education, Instt. of, Dabriwala House, 10, Middleton Row, Calcutta 700071.

Detective Trg. & Forensic Instts., Central, 20, Gorachand Rd., Calcutta 700014.

Economic & Entrepreneurship Devpt. Foundation, 27A, Camac St., Calcutta 700016.

Education Socy., 6/A, Sahitya Parishad St., Calcutta 700006.

Electronic Technology, Indian Instt. of, 8/8, R. N. K. St., Calcutta 700005.

Homoeopathy, National Instt. of, 118, Amherst St., Calcutta 700009.

Jute Technology, Instt. of, 35, Ballygunge Circular Rd., Calcutta 700019.

Libraries & Information Centres, Indian Assocn. (IASLIC), P. 219, CIT Scheme 6M, Kankurgachi, Calcutta 700054.

Management, Indian Instt. of, "Emerald Tower", Diamond Harbour Rd., P.O. Joka, Calcutta 700027.

Mountaineering Instt., The Himalayan, Jawahar Parbat, Darjeeling 734101.

Neurology, Bangur Instt. of, 52/1A, S. N. Pandit St., Calcutta 700025.

Nuclear Physics, Saha Instt. of, 92, Acharya Prafulla Chandra Rd., Calcutta 700009.

Pasteur Instt., 2, Convent Lane, Calcutta 700014.

Sangit Samaj, Bharatiya, 39-B, Mahim Halder St., Calcutta 700026. College of Indian music.

Sangit Samaj, Surer Maya, 171/26, Roy Bahadur Rd., Calcutta 700034.

Social Welfare and Business Management, Indian Instt. of, College Sqr. West, Calcutta 700073.

Statistical Instt., Indian, 203, Barrackpore Trunk Rd., Calcutta 700035.

Technology, Indian Instt. of, Kharagpur 721301.

Theoretical Physics, Instt. of, 4/1, Mohan Bagan Lane, Calcutta 700004.

Women's Education Socy., Bani Mandir, 2, Dr. A. R. Chowdhury Le., Calcutta 700019.

RESEARCH

EXPENDITURE : In 1952-53 the country spent Rs. 122 million on research and development. By 1973-74 it had gone up to Rs. 2,460 million and he revised budget estimate for 1977-78 was Rs. 3,986 illion.

NATIONAL RESEARCH DEVELOPMENT CORPORATION OF INDIA : 61, Ring Rd., Lajpat Nagar II, New Delhi 110024.

Main Functions : To stimulate development and commercial exploitation of Indian patents and inventions; ard prizes for outstanding inventions; finance pilot s/demonstration units and making of prototypes in llaboration with industry; aid horizontal transfer of technology from one industry to another to minimise repetitive import of technology and export indigenous technology.

Publications : — NRDC Process List; Invention Intelligence (English Monthly); Awishkar (Hindi Monthly).

Chairman : R. S. Bhatt.

Managing Director : Dr. C. V. S. Ratnam.

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH : Rafi Marg, New Delhi-110001.

CSIR functions as a part of the Department of Science & Technology in the Cabinet Secretariat. There are 30 research establishments which include national laboratories, institutes, organisations, regional laboratories and two information centres. In addition, there are constituent technical divisions at the Headquarters, viz., the Technical Manpower Division, the Technology Utilisation Division, the Planning Division, Centre for the Study, Technology and Development, the Patent Unit, the Grant-in-Aid Unit, the Science Reporter Unit and the Public Relations Unit.

National Register maintained by the Technical Manpower Division, CSIR, is a clearing house of information regarding availability and utilisation of Indian scientists, engineers, technologists, medical personnel and social scientists in India and abroad.

NATIONAL LABORATORIES INSTITUTES

Aeronautical Laboratory, National, *P.O. Bag No.* 1779, *Bangalore* 560017 — Scientific investigations into the problems of flight and their practical application to design, construction and operation of aircrafts in India.

Botanic Gardens, National, *Rana Pratap Marg, Lucknow* 226001—Collection and large scale cultivation of economic and medicinal plants of industrial importance.

Building Research Institute, Central (*Min. of Works & Housing*), *Roorkee* 247667, *U.P.* — Engineering and structural aspects of building and human comforts in relation to buildings.

Cultural Property, National Research Laboratory for Conservation of, *C/o State Museum, Banarsi Bagh, Lucknow* 226001 — Conducts research for dating and authentication of art and archaeological objects, environmental archaeology, etc. It also assists in setting up of laboratories and giving technical advice to any laboratory relating to conservation of arts.

Chemical Laboratory, National, *Pune* 411008 — Fundamental and applied research in the field of Chemistry and Chemical Technology. Undertakes contractual research.

Drug Research Institute, Central, *Chattar Manzil Palace, P.O. Box* 173, *Lucknow* 226001—All aspects of drug research including evaluation & standardisation of crude drugs, discovery of substitutes for pharmacopoeial drugs and plants, pharmaceutical and synthetic chemicals, biochemistry and biophysics, infection, immunisation, pharmacology, chemotherapy & experimental medicine.

Electro-Chemical Research Institute, Central, *Karaikudi* 623003, *Tamil Nadu*—Research on different aspects of electro-chemistry, including electro metallurgy, electrodeposition and allied problems. The institute has two extension centres at Madras and Mandapam.

Electronics Engineering Research Institute, Central, *Pilani* 333031, *Rajasthan*—Design and construction of electronic equipments and components and test equipments.

Environmental Engineering Research Institute (NEERI), National, *Nehru Marg, Nagpur* 440020. Formerly known as Central Public Health Engineering Research Instt. it has zonal laboratories at Ahmedabad, Bombay, Calcutta, Cochin, Delhi, Hyderabad, Jaipur, Kanpur and Madras.

Experimental Medicine, Indian Institute of, 4, *Raja Subodh Mullick Rd., Calcutta* 700032—Research in various aspects of biochemistry as applied to medicine, bacteriology, etc.

Food Technological Research Institute, Central, *Chaluvamba Mansion, Mysore* 570013 — R & D in post-harvest technology of food resources and to promote food industries. To develop nutritious food ; to provide assistance to industry and new entrepreneurs. [illegible] international trg. centre in food science and [illegible]

Fuel Research Institute, Central (*Min. of* [illegible] *P.O.: F.R.I.* 828108, *Dhanbad Dist., Bihar*—Fu[illegible] and applied research on fuels, coal and lignite. [illegible] and chemical surveys of coals are done by its [illegible] survey stations.

Geophysical Research Institute, National, [illegible] *rabad* 500007—Gravitational, magnetic, electrical [illegible] seismic surveys.

Glass and Ceramic Research Institute, Cen[illegible] *Jadavpur University P.O., Calcutta* 700032—Ap[illegible] search on glass, pottery, refractories, vitreous [illegible] mica ; evaluation and utilization of indigenous raw [illegible] rials, import substitution, development of new pro[illegible] and products, improvement in quality of industrial [illegible] ducts, standardisation, etc. ; undertakes inve[illegible] sponsored by industry and operates pilot plant [illegible] production of optical glass. The institute has est[illegible] its first research centre at the Naroda Indl. Estate [illegible] outskirts of Ahmedabad 382330.

Leather Research Institute, Central, [illegible] *Madras* 600020 Fundamental and applied aspects [illegible] leather technology and allied fields like footwear, [illegible] goods, leather auxiliaries and machinery [illegible] industries.

Mechanical Engineering Research Institu[illegible] **Central,** *Mahatma Gandhi Ave., Durgapur* 713[illegible] *W. Bengal*—It maintains Mechanical Engineering Rese[illegible] and Development Centres at Ludhiana, Pune, Ma[illegible] Durgapur and Cochin and a liaison centre at C[illegible]

Medicinal Plants Organisation, Central Ind[illegible] 474/6, *Sitapur Rd., Lucknow* 226007 — Develop[illegible] cultivation of medicinal and aromatic plants. It has [illegible] centres located at Bangalore, Haldwani (U.P.) and K[illegible] kanal, and four drug farms and factories in Jam[illegible] Kashmir.

Metallurgical Laboratory, National, [illegible] 831007, *Bihar*—Fundamental and applied metallurg[illegible] research. It maintains six field stations in [illegible] Nadu, Gujarat and West Bengal.

Mining Research Station, Central, *Barwa* [illegible] *Box* 50, *Dhanbad* 826001, *Bihar*—Research in [illegible] mining, safety in mines and mine machinery.

Oceanography, National Institute of, [illegible] 403004, *Goa*—Research on physical, [illegible] chemical, geophysical, instrumentation and [illegible] aspects of oceanography including prospecting [illegible] leum and minerals in sea bed. The Institute [illegible] centres at Bombay, Cochin and Waltair and an [illegible] Natural Oceanographic Data and Information C[illegible] the headquarters.

Petroleum, Indian Institute of [illegible] *P.O.: I.I.P., Dehra Dun* 248005—[illegible] etc., and the training of personnel.

Physical Laboratory, National, *Hillside Rd.*, [illegible] *Delhi* 110012—Research in fundamental and [illegible] physics with facilities for testing.

Research Laboratory, Regional, *Bhubaneswar* [illegible] *Orissa*—Bringing projects of potential local [illegible] to the attention of local industries and [illegible] ance in testing of their products.

Research Laboratory, Regional, *Hyderabad* [illegible] General research & testing facilities.

Research Laboratory, Regional, *Canal Rd., Jammu Tawi* 180001, *Jammu & Kashmir*—General research and research specially directed to medicinal plants of the Himalayas (Kashmir region).

Research Laboratory, Regional, *Jorhat* 785006, *Assam*—Research relating to more efficient utilisation and conservation of important national resources of Assam and surrounding areas.

Road Research Institute, Central (*Min. of Shipping & Transport*), *Mathura Rd., P.O.: CRRI, New Delhi* 110020 — Research and testing of road materials and road surfaces.

Salt & Marine Chemicals Research Institute, Central, *G. Badheka Marg, Bhavnagar* 364002, *Gujarat*—Research & Devpt. work on solar salt, marine chemicals, marine algae, seaweed chemicals, sea water irriculture, desalination of sea/brackish water-Ion exchange, utilisation of solar energy for different applications and corrosion.

Scientific Instruments Organisation, Central, *Sector* 30, *Chandigarh* 160020—Promotion and development of scientific instruments for teaching, research and industry with service centres in New Delhi, Madras, Calcutta, Bombay, Lucknow, Hyderabad and Cochin.

Structural Engineering Research Centre, *Roorkee* 247667, *Uttar Pradesh*—Research in specialised design and development work of buildings, bridges, transmission line towers, silos, ferro cement bins, bio-gas plants etc.

Toxicology Research Centre, Industrial, *M. Gandhi Marg, Post Box* 80, *Lucknow* 226001 — To study effects of industrial toxins on skin, blood, gastro-intestinal tract, central nervous system, bones, etc.

SCIENCE MUSEUMS

Industrial & Technological Museum, Birla (*Min. of Education*), 19*A*, *Gurusaday Rd., Calcutta* 700019.

Industrial & Technological Museum, Visvesvaraya (*Min. of Education*), *Kasturba Rd., Bangalore* 560001.

Science Centre, Nehru (*Min. of Education*), *Dr. E. Moses Rd., Worli, Bombay* 400018.

INFORMATION CENTRES

Publications and Information Directorate, *Hillside Rd., New Delhi* 110012 — It disseminates scientific and technical information through publication of encyclopaedias, journals and reports; attends to technical enquiries relating to Indian raw materials and industrial products; and imparts training in editorial and production work.

Documentation Centre, Indian National Scientific, *Hillside Rd., New Delhi* 110012 — Established in 1952, with technical assistance from UNESCO, it provides a complete range of documentation services in science and technology to individuals and institutions all over the country.

INDIAN COUNCIL OF AGRICULTURAL RESEARCH, *Krishi Bhavan, New Delhi* 110001.

ICAR functions as a part of the Ministry of Agriculture and Irrigation, Government of India. There are 25 research establishments which include institutes and laboratories. Some of these have their own regional field stations. In addition, ICAR has established a research complex for undertaking the research on problems of farming community in north-eastern region of the country. The headquarters of **ICAR Research Complex** for north-eastern region is located in *Shillong*-793004. Another research complex has recently been established in Goa.

Agricultural Engineering Central Instt. of, *Bhopal* 462001.

Agricultural Research Institute, Indian, *Pusa, New Delhi* 110012—The centre of origin of many new findings relevant to increasing productivity of our economic plants. Apart from its leading role in bringing about the Wheat Revolution, its research includes the widely accepted technique of relay cropping, new technology for dry areas, and research in upgrading protein quality of cereals. Since 1958, about 2,500 students have taken M.Sc. and Ph.D. degrees from the Institute.

Agricultural Statistics Research Institute, Indian, *Library Ave., New Delhi* 110012.

Agriculture, Central Staff College of, *Rajendranagar, Hyderabad* 500030.

Arid Zone Research Institute, Central, *Jodhpur* 342001, *Rajasthan* — Research in agronomy, agrostology, arid zone silviculture, soil science etc.

Cotton Research, Central Instt. of, *Nagpur* 440001.

Cotton Technological Research Laboratory, *Bombay.*

Dairy Research Institute, National, *Karnal* 132001, *Haryana. Regional Stations: Eastern — at Kalyan, West Bengal; Southern — at P.O. Adugodi, Hosur Rd., Bangalore* 560030; *Western — at Aarey Milk Colony, Bombay* 400065.

Fisheries Technology, Central Institute of, *Wellingdon Island, Cochin* 682029, *Kerala.*

Grassland and Fodder Research Institute, Indian, *Jhansi* 284001, *Uttar Pradesh.*

Horticultural Research, Indian Institute of, *No.* 255, *Upper Palace Orchards, Bangalore* 560006.

Inland Fisheries Research Institute, Central, *Barrackpore* 743101, *West Bengal.*

Jute Agricultural Research Institute, *Barrackpore* 743101, *West Bengal.*

Jute Technological Research Laboratories, *Calcutta* 700001.

Lac Research Institute, Indian, *Namkum, Ranchi* 843001, *Bihar.*

Mango Research Station, Central, *Malihahad* 227111, *Uttar Pradesh.*

Marine Fisheries Research Institute, Central, *Cochin* 682001, *Kerala.*

Plant Genetic Resource, National Bureau of, *IARI Campus, New Delhi* 110012.

Plantation Crops Research Institute, Central, *Kasaragod* 670121, *Kerala.*

Potato Research Institute, Central, *Simla* 171001, *Himachal Pradesh.*

Rice Research Institute, Central, *Cuttack* 753006, *Orissa.*

Sheep and Wool Research Institute, Central, *Avikanagar* 304501, *Rajasthan.*

Soil and Water Conservation Research & Training Institute, Central, *Dehra Dun* 248001, *Uttar Pradesh.*

Soil Salinity Research Institute, Central, *Karnal* 132001, *Haryana.*

Soil Survey and Land Use Planning, National Bureau of, *IARI Campus, New Delhi* 110012.

Sugarcane Breeding Institute, *Coimbatore* 641001, *Tamil Nadu.*

Sugarcane Research, Indian Institute of, *Lucknow* 266001, *Uttar Pradesh.*

Tobacco Research Institute, Central, *Rajahmundry 533001, Andhra Pradesh.*

Tuber Crops Research Institute, Central, *'Vardhini', Vazhuthacaud, Trivandrum 695010.*

Veterinary Research Institute, Indian, *Izatnagar 243122, Uttar Pradesh.*

Vivekanand Laboratory for Hill Agriculture, *Almora 263601, Uttar Pradesh.*

INDIAN COUNCIL OF MEDICAL RESEARCH,

Ansari Nagar, New Delhi 110016.

The ICMR is an autonomous organisation which initiates, develops and co-ordinates bio-medical research in the country. It maintains thirteen permanent and several semi-permanent research institutes. These institutions and units have been marked with an asterisk in the list of important medical research bodies mentioned below.

Anatomy : *Institute of Anatomy, Madras Medical College, Park Town, Madras* 600003.

Cancer : (1) *Cancer Research Institute of Tata Memorial Centre, Parel, Bombay* 400012. (2) *Chittaranjan National Cancer Research Centre,* 37, *S. P. Mookerjee Rd., Calcutta* 700026. (3) *Mehdi Nawaz Jung Cancer Hospital and Radium Institute, Red Hills, Hyderabad* 500001, *Andhra Pradesh.*

Haematology : *Blood Group Reference Centre, Seth G. S. Medical College, Bombay* 400012.

Health, Preventive Medicine : (1)† *All India Institute of Hygiene and Public Health,* 110, *Chittaranjan Ave., Calcutta* 700012. (2) *Chemical Examiners' Laboratory, Madras* 600003. (3) *Public Health Laboratory, Red Cross Rd., Trivandrum* 695001, *Kerala.* (4) *Government Analyst's Laboratory, Red Cross Rd, Trivandrum* 695001, *Kerala.*

Indian Systems of Medicine : (1) *Institute for Ayurvedic Studies and Research, Dhanwantri Mandir, P.O. Bag* 513, *Jamnagar* 361001, *Gujarat.* (2)† *Institute of Research in Indigenous System of Medicine, Approach Rd., Jogindernagar, Himachal Pradesh.* (3) *Central Council for Research in Ayurveda & Siddha,* E 25, *Defence Colony, New Delhi* 110024. (4) *Central Council for Research in Unani Medicine,* E 25, *Defence Colony, New Delhi* 110024. (5) *Central Council for Research in Homoeopathy, C/o Homoeopathy Pharmacopoeia Laboratory Navyug Market, Ghaziabad* 201001. (6) *Central Council for Research in Yoga and Naturopathy, Ashoka Rd., New Delhi* 110001.

Infectious Diseases : (1) **Cholera Research Centre,* 3, *Dr. Ishaque Rd. (Kyd St.), Calcutta* 700016. (2) *Institute of Venereology, Government General Hospital, Madras* 600003. (3) † *National Institute of Communicable Diseases,* 22, *Alipore Rd., Delhi* 110006. (4) **Vector Control Research Centre,* 5/38, *Lenin St., Kosapalayam, Pondicherry* 605011.

Leprosy : (1)† *Central Leprosy Teaching and Research Institute, P.O. Box* 1, *Chingleput* 603001, *Tamil Nadu.* (2) *Leprosy Investigation and Treatment Centre, Zaheerabad* 502220, *Andhra Pradesh.* (3) *Schieffelin Leprosy Research Sanatorium, Karigiri, Via Katpadi* 632007, *Tamil Nadu.* (4) **Central JALMA Instt. for Leprosy, Tajganj, Agra* 282001. *U.P.*

Medical Education and Research : (1) † *All India Institute of Medical Sciences, Ansari Nagar, New Delhi* 110016. (2)† *All India Institute of Physical Medicine and Rehabilitation, Haji Ali Park, Clerk Rd., Bombay* 400034. (3) † *Central Research Institute, Kasauli* 173204, *Himachal Pradesh.* (4) *Haffkine Institute for Training, Research & Testing, Parel, Bombay* 400012. (5) *Indian Institute of Experimental Medicine,* 4, *Raja Subodh Mullick Rd., Calcutta* 700032. (6) *Institute of History of Medici and Medical Research,* 2/A-3, *Asaf Ali Rd., New Del* 110001. (7) *Institute of Post-graduate Medical Education a Research,* 244, *Lower Circular Rd., Calcutta* 70 (8) † *Jawaharlal Nehru Institute of Post-graduate Medic Education and Research, Pondicherry* 605006. (9) † *Natio Institute of Health Administration and Education,* [illegible] *Greater Kailash, New Delhi* 110048. (10) *P Institute of Indian Medicine, Varanasi* 221005, *U Pradesh.* (11) *Post-graduate Institute of Medical Educatio and Research, Sector* 12, *Chandigarh* 160001. (12) *She K. M. School of Postgraduate Medicine and Researc Ellis Bridge, Ahmedabad* 380006. (13) **Laboratory Anim Information Service, National Instt. of Nutrition, Jami Osmania, Hyderabad* 500007.

Medical Statistics : (1) **Instt. for Research in Me Statistics, ICMR, Ansari Nagar, New Delhi* 110016.

Mental Health : (1)† *All India Institute of Mental Healt P.O. Bag* 15, *Shantinagar P.O., Bangalore* 560027. *Hospital for Mental Diseases and Post-graduate Traini Centre, Kante, Ranchi* 834001, *Bihar.*

Nutrition : **National Institute of Nutrition Jami Osmania, Hyderabad* 500007, *Andhra Pradesh.*

Occupational Health : (1) *Industrial Toxicology Re search Centre, Chattar Manzil Palace, Post Box* 80, *Luckno* 226001, *Uttar Pradesh.* (2) * *National Institute of Occupa tional Health, Meghani Nagar, Ahmedabad* 380 *Gujarat.*

Ophthalmology : (1) *M. U. Institute of Ophthalmology Gandhi Eye Hospital, Aligarh* 202001, *Uttar Prade* (2) *Nehru Institute of Ophthalmology, Eye Hospital, Sitapu* 261001, *Uttar Pradesh.*

Paediatrics : (1) *B. M. Institute, Balghar, Godavar Centre for Family Relations, Navrangpura, Near Nehr Bridge, Ahmedabad* 380009, *Gujarat.* (2) *Institute of Chi Health,* 11, *Dr. Biresh Guha Rd., Calcutta* 700017.

Pathology : (1)* *Indian Registry of Pathology, Depart ment of Pathology, Safdarjung Hospital, P.O. Box* 305 *New Delhi* 110016.

Pharmacy : (1) *Central Drug Research Institute, Chatta Manzil Palace, P.O. Box* 173, *Lucknow* 226001, *Utt Pradesh.* (2)† *Central Drug Laboratory,* 3, *Ishaque Rd (Kyd St.), Calcutta* 700016. (3) * *Food & Drug* [illegible] *Centre, National Instt. of Nutrition, Jamia-Os Hyderabad* 500007.

Physiology : (1) *Defence Institute of Physiology and A Sciences, Contonment, New Delhi* 110010.

Radiotherapy : (1) *Barnard Institute of* [illegible] *Madras Medical College, Madras* 600003. (2) *I* [illegible] *Nuclear Medicine and Allied Sciences, Probyn Rd Delhi* 110006.

Reproduction : (1)* *Institute for Research in R* [illegible] *tion, Jehangir Merwanji St., Parel, Bombay* 400012.

Serology : (1) † *B. C. G. Vaccine Laboratory, G Madras* 600032. (2) *Government Vaccine Institute* [illegible] *Pasteur Institute, Namkum P.O., Ranchi* 834010, (3) *King Institute of Preventive Medicine, Guindy, M* 600032. (4) *State Vaccine Institute, Patwa-D* 263128, *Uttar Pradesh.*

Tuberculosis : (1) *Government Chest Institute and Tuber culosis Demonstration and Training Centre, Spur Ta Rd., Chetput, Madras* 600013. (2) † *National T Institute,* 8, *Bellary Rd., Bangalore* 560003. (3) * *Tuber culosis Chemotherapy Centre, Chetput, Madras* 6000 (4) † *Vallabhbhai Patel Chest Institute, University of Delhi* 110007.

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* Institutions under Indian Council of Medical Research. † Institutions under Central Government, Ministry of Health and Family

Virus Infections: (1)* *Virus Research Centre,* 20-*A, Dr. Ambedkar Rd., Pune* 411001, *Maharashtra.*

Voice and Speech: †*All India Institute of Speech and Hearing, Maharaja College Centenary Hall, Mysore* 570005.

OTHER CENTRAL GOVERNMENT INSTITUTIONS

Anthropological Survey of India, 27, *Jawaharlal Nehru Rd., Indian Museum, Calcutta* 700013. (*Min. of Edu.*), *Zonal Museums at Jagdalpur (M.P.) & Nagpur.*

Atlas Organisation, National, 50A, *Gariahat Rd., Calcutta* 700019. (*Min. of Edu.*).

Bee Research Institute, Central, 839/1 *Shivajinagar, Pune* 411004. (*Min. of Ind. Dev.*).

Botanical Survey of India, *P.O. Botanic Garden, Howrah* 711103; (1) *Indian Botanic Garden, Howrah* 711103; (2) *Central National Herbarium, Howrah* 711103; (3) *Central Botanical Laboratory, Howrah* 711103; (4) *Industrial Section, Indian Museum,* 1, *Sudder St., Calcutta* 700013; (5) *Central Circle* — 10, *Chatham Lines, Allahabad* 211002, *Uttar Pradesh;* (6) *Eastern Circle* — '*Woodlands*', *Lower New Colony, Shillong* 793003, *Meghalaya;* (7) *Northern Circle* — 3, *Lakshmi Rd., Dehra Dun* 248001, *Uttar Pradesh;* (8) *Southern Circle* — 29, *Dewan Bahadur Rd., R. S. Puram, Coimbatore* 461002, *Tamil Nadu;* (9) *Western Circle* — *Koregaon Rd., Moti Mansion, Pune* 411001, *Maharashtra;* (10) *Arid Zone Circle* — *D-7 Shastri Nagar, Jodhpur* 342001, *Rajasthan;* (11) *Andaman and Nicobar Circle* — *Naeem Villa, Marine Hill, Port Blair, Andaman* 744101; (12) *Itanagar Field Station, Itanagar, Arunachal Pradesh.*

Botanic Garden, Indian, *Shibpore, Howrah* 711103, *West Bengal.* (*Min. of Edu.*).

Buildings Organisation, National, *Nirman Bhavan, 'G' Wing, Maulana Azad Rd., New Delhi* 110011. (*Min. of Works & Hsg.*).

Cement Research Instt. of India, *M*-10, *South Extension II, Ring Rd., New Delhi* 110016. (*Min. of Industry*).

Civil Aviation Department, Research and Development Directorate, *Technical Centre, Civil Aviation Department, Safdarjung, New Delhi* 110003. (*Min. of T. & C. Avn.*).

Coconut Research Station, Central, *P.O. Kudla, Kasaragod* 670124, *Kerala. Regional Stations:* (1) *Kayangulam* 690533, (*Kerala*); (2) *Calicut* 673011, *Kerala;* (3) *Vittal* 574243, *Karnataka.*

Coffee Research Institute, Central, *P.O. Coffee Research Station, Chikmagalur Dist., Karnataka State.* (*Min. of Commerce*).

Coir Research Institute, Central, *P.O. Kalvoor, Alleppey* 688001, *Kerala State.* (*Min. of Commerce*).

Crops Research Institute for the Semi Arid Tropics, International, 1-11-256, *Begumpet, Hyderabad* 500016.

Design Institute, National, *Paldi, Ahmedabad*-380007. (*Min. of Ind. Dev.*).

Family Welfare Institute, *L*-17, *Green Park, New Delhi* 110016. (*Min. of H. & F. Welfare.*).

Family Welfare Training & Research Centre, 382, *Sardar Vallabhbhai Patel Rd., Bombay* 400004. (*Min. of H. & F. Welfare.*).

Fishing Organisation, Deep Sea, *Botawala Chambers, Sir P. M. Rd., Bombay* 400001. (*Min. of Agri.*).

Food Laboratory, Central, 2, *Kyd St., Calcutta* 700016. (*Min. of Agri., Dept. of Food*).

Forensic Science Laboratory, Central, 30, *Gora Chand Rd., Calcutta* 700014. (*Min. of Home Aff.*).

Forest Research Centre, *Coimbatore* 641002, *Tamil Nadu.* (*Min. of Agri.*).

Forest Research Institute and Colleges, *New Forest P.O., Dehra Dun* 248001, *Uttar Pradesh.* (*Min. of Agri.*).

Forest Research Laboratory, *Malleswaram P.O., Bangalore* 560003. (*Min. of Agri.*).

Foundry & Forge Technology, National Institute of, *Hatia P.O., Ranchi* 834003, *Bihar.* (*Min. of Edu.*).

Geodetic and Research Branch, *Survey of India, P.O. Box* 77, *Dehra Dun* 248001, *Uttar Pradesh.* (*Min. of Edu.*).

Geological Survey of India, 27, *Jawaharlal Nehru Rd., Calcutta* 700001. (*Min. of Petro. & Chem.*).

Grain Storage Research and Training Centre, *Meerut Rd., P.O. Box* 10, *Hapur, Uttar Pradesh.* (*Min. of Agri., Dept. of Food*).

Handloom Technology, Indian Institute of, (1) *Foulkes Compound, Salem*-636001, *Tamil Nadu;* (2) *Chowkaghat, Varanasi* 221002, *Uttar Pradesh.* (*Min. of Ind. Dev.*).

Housing Wing, Rural, *Punjab Engineering College, Chandigarh* 160001. (*Min. of Works & Hsg.*).

Housing Wing, Rural, Research-cum-Training Centre, *Birla Vishvakarma Mahavidyalaya, Vallabh Vidyanagar, Kaira District, Gujarat.* (*Min. of Works & Hsg.*).

Machine Tool Institute, Central, *Tumkur Rd., Bangalore* 560022. (*Min. of Ind. Dev.*).

Man-power Research, Institute of Applied, *Indraprastha Estate, Ring Rd., New Delhi* 110001. (*Min. of Home Aff.*).

Meteorological Department, India, *Meteorological Office, Lodi Rd., New Delhi* 110003. (*Min. of T. & C. Avn.*).

Meteorology, Institute of Tropical, *Ramdurg House, Poona University Rd., Pune* 411005. (*Min. of T. & C. Avn.*).

Mines, Indian Bureau of, *New Secretariat Bldg., Nagpur* 440001. (*Min. of Steel & Mines*).

Observatory, Astrophysical, *Kodaikanal* 3, *Tamil Nadu.* (*Min. of T. & C. Avn.*).

Observatory, Central Seismological, *Health Home, Shillong* 793005, *Assam* (*Min. of T. & C. Avn.*).

Observatory, Colaba and Alibag, *Colaba, Bombay* 400005. (*Min. of T. & C. Avn.*).

Oil & Natural Gas Commission, Research & Training Institute, 9, *Kaulagarh Rd., P.O. Box* 40, *Dehra Dun,* 248001, *Uttar Pradesh.* (*Min. of Petro. & Chem.*).

Orthopaedics, Central Institute of, *Safdarjang Hospital, New Delhi* 110016. (*Min. of H. & F. Plg.*).

Photo-Interpretation Institute, Indian, *No.* 113, *Rajpur Rd., Dehra Dun* 248001, *Uttar Pradesh.* (*Min. of Edu.*).

Pineapple Fibre Research Centre, *Moodbidri, Mysore State.* (*Min. of Ind. Dev.*).

Population Studies, International Institute of, *Govandi Station Rd., Chembur, Bombay* 400071.

Power Research Institute, *P.O. Box* 1042, *Bangalore* 560012. (*Min. of Irr. & Power*).

Productivity Council, National, 38, *Golf Links, New Delhi* 110003. (*Min. of Ind. Dev.*).

Radio, Office of the Research Engineer, All India, *Indraprastha Estate, New Delhi* 110001. (*Min. of Inf. & Br.*).

Railways, Research, Designs and Standards Organisation, *Ministry of Railways, Alambagh, Lucknow*-226005.

Rice Research Station, Central Saline, *C/o Central Rice Research Inst., Canning Town P.O., 24-Parganas, West Bengal.*

Rubber Research Institute of India, *Kottayam* 686009, *Kerala.* (*Min. of Commerce*).

Salt Test Laboratory, Government, *Antop Hill, Wadala, Bombay* 400031. (*Min. of Petro. & Chem.*).

Science Education, Department of, *National Institute of Education, Mehrauli Rd., New Delhi* 110006. (*Min. of Edu.*).

Sericultural Research and Training Institute, Central, *Shanthivilas, Nazarbad, Mysore* 570001. (*Min. of Commerce*).

Small Industries Extension Training Institute, *Yousufguda, Hyderabad* 500038. (*Min. of Ind. Dev.*).

Soil Mechanics Research Station, Central, *Exhibition Grounds, American Pavilion, Mathura Rd., New Delhi.* (*Min. of Irr. & Power*).

Standard Institution, Indian, 9, *Bahadur Shah Zafar Marg, New Delhi* 110001. (*Min. of Ind. Dev.*).

Sugar Institute, National, *Kalimpur, Kanpur* 208001, *Uttar Pradesh.* (*Min. of Agri., Dept. of Food*).

Telecommunication Research Centre, *Eastern Court Compound, Janpath, New Delhi* 110001. (*P. & T. Dept.*).

Test House, National, 11/1 *Judges' Court Rd., Alipore, Calcutta* 700027. (*Min. of Ind. Dev.*).

Village Industries, Jamnalal Bajaj Central Research Institute for, *Maganwadi, P.O. Box 4, Wardha,* 442001, *Maharashtra.* (*Min. of Ind. Dev.*).

Water & Power Research Station, Central, *Khadakwasla P.O., Pune* 411024. (*Min. of Irr. & Power*).

Zoological Survey of India, 34, *Chittaranjan Ave., Calcutta* 700012. (*Min. of Edu.*).

OTHER RESEARCH BODIES

ANDHRA PRADESH

Archaeological & Cultural Research Instt., Birla, 16-1-740, Asmangadh Palace, Malakpet, Hyderabad 500036.

Defence Metallurgical and Research Laboratory, Yakutpura, Hyderabad 500033.

Geography, Indian Instt. of, 10-3-81/1, Marredpalli East, Secunderabad 500026. Branch : Topenagar Camp, Amravati 444602, Maharashtra.

Historical Research Socy., Andhra, Rajahmundry 533101.

Nutrition, National Institute of (ICMR) Jamai Osmania, Hyderabad 500007. Principal research and trg. centre on Nutrition for South & South East Asia. Publications include *Nutrition* (*Quarterly*), Diet & Nutrition Atlases of India.

Within the National Institute of Nutrition, the following three centres have been established : 1. Food and Drug Toxicology Research Centres (FDTRC); 2. Laboratory Animal Information Services (LAIS). 3. National Nutrit Monitoring Bureau (NNNB).

Oil Technological Research Instt., Anantapur 515001 Run by the A.P. Govt. Conducts research on vegetabl oils, fats & allied products. Technical advice and on problems relating to oil technology are offered.

Oilseeds Development Council, Indian, T Bhavan, Himayatnagar, Hyderabad 500029.

Remote Sensing Agency, National, 4, Sardar P Rd., Secunderabad 500003. Autonomous Orgn. sponso by the Deptt. of Science & Technology, Govt. of I undertake research in the field of remote sensing, a techn logy which finds applications in Agriculture, Forestr Ground & Surface Water, Soil Classification, Land U Urban Plng., Pollution Monitoring, Mineral Surv Geographical Survey, Cartography, etc.

Scientific Research, Ashok Instt. of, 108, Walk Town, Secunderabad 500025.

Tribal Cultural Research & Trg. Instt., Banjara Hills, Road No. 1, Hyderabad 500034.

Unani Medicine, Central Research Instt. for, 10-2- A. C. Guards, Hyderabad 500004.

Yoga and Allied Sciences, Indian Instt. of Research in, 4th Hostel, S.P.W. Coll., Tirupati 517502.

ASSAM

Tea Research Assocn., Tocklai Experimental Stn., Jorhat 785008.

BIHAR

Hydraulic & Allied Research, Bihar Instt. of, Patna 800001.

Medical Sciences, Rajendra Prasad Memorial Research Instt. of, Agam Kuan, Patna 800007.

Prakrit, Jainology and Ahimsa, Research Isntt. of, Vaishali 844128.

Research Instt., K. P. Jayaswal (Govt. of Bihar). Museum Bldgs., Patna 800001.

Soil Conservation Research, Demonstration & Trg. Centre, P.O. Jogbani 854328. Purnea Dist.

Soil Conservation Socy. of India, 15, Bayley Rd., Patna 800001.

NEW DELHI

Applied Manpower Research, Instt. of, Indrapras Estate, Ring Rd., New Delhi 110001. Studies and dis- seminates knowledge about the nature, characteristics an utilisation of human resources in India ; develops im- proved techniques for dealing with the trg. & devpt. the existing work force and forecasts demand and suppl of manpower.

Applied Economic Research, National Council of, Parisila Bhavan, 11, Indraprastha Estate, New D 110001. An autonomous orgn. estd. in 1956, which takes sponsored research work — mainly from C and State Govts., public undertakings & private prises — besides projects on its own initiative. It far done about 372 projects of which 218 have been lished. The areas of research cover almost all economic devpt. & plng., such as agriculture, trade, transport, energy, employment, public and financial infrastructure. The Council runs a journal ' Margin '.

Blindness, National Socy. for the Pervention Ansari Nagar, New Delhi 110016. Conducts research causes of blindness — how these can be eliminated and suggests steps for the correct care and use of eyes. The Society has branches all over the country, ophthalmic research centres in Modinagar, U.P., and Jammu & Kashmir and a workshop in New Delhi for the manufacture of highly sophisticated contact lenses.

Cement Research Instt. of India, M-10, S. Extn., Ring Rd., New Delhi 110040.

Employment Service, Central Instt. of Research & Trg. in, Pusa, New Delhi 110012. Objectives : (*a*) Conducting research studies on matters relating to organisational, functional and procedural problems of employment exchanges ; (*b*) organising professional trg. for the employment service personnel from developing countries under programmes of intnl. co-opn. and (*c*) preparation & publication of occupational information and career literature for use in ednl. instns. and employment exchanges for vocational guidance.

Historical Research, Indian Council of, 35, Ferozeshah Rd., New Delhi 110049.

Industrial Relations & Human Resources, Shri Ram Centre for, 5, Sadhu Vashwani Mrg., New Delhi 110005. A research and teaching insttn. concerned with the applied problems of public & private sector industries as well as of rural labour. Conducts research and disseminates the findings through trg. programmes, seminars & conferences, etc.

Industrial Research, Shri Ram Instt. for, 19, Univ. Rd., Civil Lines, Delhi 110007. Consists of two research divns., *i.e.*, Polymer and Fibre and one analytical divn. called Shriram Test House. Serving the nation through applied industrial research for the last 25 years.

Informatics Centre, National, C-4/47, Safdarjung Devpt. Area, New Delhi 110016. Developing methodologies relating to large data bases and their development.

Nehru Memorial Museum and Library, Teen Murti House, New Delhi 110011. A personalia museum depicting the life & work of Jawaharlal Nehru in the context of the struggle for Indian freedom, and a research library specialising in the history of modern India. Besides 70,000 books, the library has a rich collection of newspapers, unpublished private papers, photographs, oral history recordings & microfilms.

Nuclear Research Laboratory, I.A.R.I., New Delhi 110012.

Population, Indian Assocn. for the Study of, Instt. of Economic Growth, Univ. of Delhi, Delhi 110007.

Psychic & Spiritual Research, Instt. of, 22, Sardar Patel Marg, New Delhi 110021.

Public Co-operation, Central Instt. of Research & Training in, C-1/4, Safdarjang Dev. Area, Hauz Khas, New Delhi 110016. Trg. & Research in Social, Welfare & Public Co-operation.

Small Industries Research & Devpt. Organisation (SIRDO), Laghoodyog Kutee, 23-B/2, Guru Govind Singh Mrg., New Delhi 110005. To identify the potential entrepreneur, help them with consultancy service, project-preparation, mgmt. trg. in all disciplines, financial assistance, easy and regular flow of new materials through setting up of raw materials, banks and arrange mktg. of the products.

Social Science Research, Indian Council of, IIPA Hostel, Ring Rd., Indraprastha Estate, New Delhi 110001. An autonomous body set up by the Govt. of India to promote social science research, to expand its quantum, to improve its quality & to facilitate its utilisation in policy formulation and national devpt.

Water Pollution, Central Board for Prevention and Control of, Ex-A FO Mess, Dr. R. Prasad Rd., New Delhi 110001.

GOA

Historical Research, Xavier Centre of, Jesuit House, Panaji 403001. Set up by the Heras Instt. of Indian History & Culture and The Society of Jesus, the centre encourages research in Indo-Portuguese period.

Medical Research Centre, Salgaocar, Salgaocar House, Vasco da Gama 463802.

GUJARAT

Cancer Research Instt., Gujarat, NCHT Compound, Ahmedabad 380016.

Economic Social Research, Sardar Patel Instt. of, P. Box No. 4062, Navrangpura, Ahmedabad 380009.

Electronic Research Centre, Sarabhai, Naroda Ind. Area, Naroda, Ahmedabad 382320.

Engineering Research Instt., Race Course Rd., Vadodara 390005.

Learning and Research, Sheth Bholabhai Jeshinghbhai Instt. of, R. C. Marg, Ahmedabad 380009.

Man-Made Textiles Testing & Research Assocn., SASCMA, Resham Bhavan, Lal Darwaja, Surat 395003.

Physical Research Laboratory, Navrangpura, Ahmedabad 380009.

Research Centre, Sarabhai, Wadi Wadi, Vadodara 390007.

Research Society, Gujarat, 445, Paldi, Ahmedabad 380007.

Soil Conservation Research, Demonstration & Trg. Centre, Opp. Rly. Station, Vasad 391830.

Textile and Allied Industries Research Organisation (TAIRO), Kala Bhavan Premises, Vadodara 390001.

Textile Industry's Research Assocn., Ahmedabad (ATIRA), (Min. of Industry, Govt. of India), P.O., Polytechnic, Ahmedabad 380015. Devpt. of new products & processes ; Consultation on technical & managerial problems ; Trg. of supervisors from industry : Recognised for postgraduate research degree of Gujarat University.

KARNATAKA

Agricultural Research, Karnataka Instt. of Applied, Sameerwadi 587312. Bijapur Dist.

Historical Research Socy., Karnatak, S. K. Rodda Rd., Dharwar 580001.

Leprosy Relief and Research Instt. of Ayurveda, Arunodaya, P. O. Kengeri 562118, Bangalore South.

Machine Tool Institute, Central, Tumkur Rd., Bangalore 560022. An industry-oriented research organisation devoted to research and development of machine tools and production engineering in India.

Oriental Research Instt., Mysore 570001.

Plywood Industries Research Instt., Indian (Min. of Industry, Govt. of India), Tumkur Rd., Bangalore 560022.

Raman Research Instt., Mekhri Circle, Bangalore 560006.

KERALA

Development Studies (C.D.S.), Centre for, Arkonam Rd., Trivandrum 695001. Research and study of various disciplines relevant to the national development.

Forest Research Instt., Kerala, Peechi 680653, Trichur Dist.

Industrial and Commercial Research Socy. of India, Vallia Veedu, Kozhencheri 689641.

MADHYA PRADESH

Applied Sciences, Birla Research Instt. for, Birlagram, Nagda 456331.

Defence Research & Devpt. Establishment, Tansen Rd., Gwalior 474002.

Forest Research Instt., State, Ratannagar, Jabalpur 482001.

Oriental Research Instt., Scindia, Vikram Univ., Vikram Kirti Mandir, Ujjain 456001.

Tribal Research Instt., Chhindwara 480001.

MAHARASHTRA

Agricultural Research Instt., Nimbkar, Phaltan 415523, Satara Dist.

Agro-Industries Foundation, Bharatiya, Kamdhenu, S. Bapat Marg, Pune 411016. A research organisation in agriculture and animal sciences. Also engaged in rural socio-economic devpt. programmes & vaccine production.

Animal Health, BAIF Research Instt. for (RIAH), Off Pune-Nagar Rd., Wagholi 412207.

Armament Research & Devpt. Establishment, Pashan, Pune 411008.

Automotive Research Assocn. of India (An Indl. Research Assocn., affiliated to Min. of Industry, Govt. of India), Survey No. 102, Vetal Hill, Off Paud Rd., Kothrud, Post Box No. 832, Pune 411004. Conducts research connected with the design, devpt. and proving of automotive equipments and ancillaries.

Cancer Research and Treatment Centre, Ayurvedic, Atreya Arogya Mandir Trust, Laud Mansion, M. Karve Marg, Bombay 400002.

Cattle & Agriculture Devpt., BAIF Research Instt. of, Uruli-Kanchan 412202.

Computing Techniques, National Centre for Software Devpt. &, C/o T.I.F.R., Homi Bhabha Rd., Bombay 400005.

Dharmakosha Mandal, P.O. Wai 412803. To conduct research in ancient Indian religion, philosophy & culture and to edit & publish encyclopaedic works such as Dharmakosha, Mimamsakosha, etc.

Drugs Research Assocn., Indian, 561-B, Shivajinagar, Behind Congress House, Pune 411005.

Electrical Research & Devpt. Assocn. (ERDA), C/o Indian Electrical Mfrs. Assocn., Kakad Chambers, Dr. A. Besant Rd., Bombay 400018.

Engineering Research Instt., Maharashtra, Dindori Marg, Nasik 422004.

Ergonomics Laboratory, Central Labour Instt. Campus, Sion, Bombay 400022. The discipline of ERGONOMICS also known as HUMAN FACTORS ENGINEERING enables us to study the man-machine systems in order to attempt at matching the machines and the environments to the man's capabilities. The Ergonomics Laboratory studies the total stress on the man arising out of the multiple factors like heat, toxic chemical fumes, vapour and dust as well as work load.

Fundamental Research, Tata Instt. of, Homi Bhabha Rd., Bombay 400005 (Estd. 1945). Fundamental research in Pure Mathematics, Applications of Mathematics, Theoretical Physics (Particle Physics, Nuclear Ph Solid State Theory, Astrophysics), High Energy Cosmic Rays (balloon altitudes, mountain alti deep underground), Space Astronomies (with rockets and satellites), Radio Astronomy, Nuclear Solid State Physics, Chemical Physics, Molecular and Virology, and Hydrology ; applied research in State Electronics, Microwave Engineering and C Sciences ; national centre of the Government of

Haffkine Instt. for Trg. Research & Testing, Bombay 400012. The Instt. undertakes research in fields of bacteriology, experimental medicine, theraphy, pharmacology, pathophysiology, haematology, immunology & [illegible] cable & other diseases. Also undertakes [illegible] isation and evaluation of drugs. Scientists may study for Master's or Doctorate degree or could be specialised fields. It also undertakes [illegible]

History & Culture, Heras Instt. of, St. Xa College, Mahapalika Marg, Bombay 400001.

Industrial Research & Devpt. Centre, M. Visves raya, Cuffe Parade, Colaba, Bombay 400005.

Jnana Prabhodhini, 510, Sadashiv Peth, Pune 41 A reasearch body for Social Sciences.

Mathematical Research Instt., Bhaskaracha Pratishthana, 106/6, Erandavane, Pune 411004.

Music & Performing Arts, Research Instt. (RIMPA), C/o K. C. Vajifdar, Warden Court, Au Kranti Marg, Bombay 400036.

Natural History Socy., Prince of Wales M pound, Bombay 400039.

Oriental Research Instt., Bhandarkar, Pune 41

Performing Arts, National Centre for the, N Point, Bombay 400021. Objectives : To establish a centre for research in the classical, folk, and contemporary arts & sciences of perform communication ; to ensure their preservation by and master classes ; to disseminate know the standard of public understanding of music, drama & related arts ; and accordingly, to schools, auditoriums, libraries, studies & work

Post-Graduate and Research Instt., Deccan Colleg Yeravda, Pune 411006.

Reproduction, Instt. for Research in, Opp. K Hospital, Parel, Bombay 400012. Research in tive physiology, testing and evaluation of fertility ting methods in animals, sub-human primates and h endocinological and genetic studies [illegible] reprod and mental retardation. **National Pituitary Agen** established in 1977. Activities are, prepa protein hormones for diagnostic & therapeut bank for the collection of auto immune sera pathology of reproduction. Postgraduate training.

Research Socy., Gujarat, Samshodhan S Ave. Khar, Bombay 400052.

Rubber Mfrs. Research Assocn., Indian (Industry, Govt. of India), B 88 Road U, Wagle Thane 400604.

Rural Devpt.—Instt. of Regional Devpt. Pl Wardha 442102. A regd. society financed which undertakes research for the Govts. &

Rural Education—Shri Mouni Vidyapeeth, [illegible] the field of rural education.

Samshodhana Mandal, Vidarbha (Vidarbha Research Society), West High Court Rd., Nagpur 440001.

Sciences, Maharashtra Assocn. of Cultivation of, 173B, Law College Rd., Pune 411004. Research in bio-ogical sciences.

Silk & Art Silk Mills Research Assocn. Ltd. (Min. of Industry, Govt. of India), Resham Bhavan, 78, Veer Nariman Rd., Bombay 400020.

Surgery, Rehabilitation & Research, Socy. for Reconstructive, C/o Tata Dept. of Plastic Surgery, Sir J. J. Group of Hospitals. Bombay 400008.

Textile Research Assocn., Bombay, (Min. of Industry. Govt. of India), Bombay Agra Rd., Ghatkopar, Bombay 400077.

Vehicles Research & Devpt. Instt., Ahmadnagar 414001.

Village Industries, Jamnalal Bajaj Central Research Instt. for, Maganwadi, Wardha 442001. Estd. in 1955 for research & investigation for the improvement of tools & techniques of village industries.

Vividhlaxi Audyogik Samshodhan Vikas Kendra, P.O. Box No. 9037, Patel Vanika, Western Express Highway, Goregaon (E), Bombay 400063. Promotion of research in various fields, giving 6 Annual Awards, scholarship to needy research workers, establishment of a well equipped research reference library & research laboratory and research oriented indl. estate in Kaira Dist.

Wool Research Assocn. (Min. of Industry, Govt. of India), C/o Textile Mfg. Dept., V.J.T.I., Matunga, Bombay 400019.

Yogic Research, Trg. and Therapeutic Instt., Kaivalyadhama S.M.Y.M. Samiti, Lonavla 410403.

MEGHALAYA

King Edward VII Memorial Pasteur Instt. & Medical Research Instt., Shillong 793001.

ORISSA

Aviation Research Centre, Charbatia 754028, Cuttack Dist.

Pulp & Paper Research Instt., P.O. Jaykaypur 765017, Koraput Dist.

Scientific & Industrial Research, Dalmia Instt. of, Rajgangpur 770017, Sundargah Dist.

PUNJAB

Vedic Research Instt., Vishveshvaranand, Sadhu Ashram, Hoshiarpur 146021.

RAJASTHAN

Soil Conservation Research, Demonstration & Trg. Centre, Kota 324002.

TAMIL NADU

Adi Sankara Advaita Research Centre, 1-E, Rosewood Offices, 28A, Nungambakkam High Rd., Madras 600034.

Fisheries Research Instt., Central Inland, 51-A/16, Perambur High Rd., Madras 600012.

Historical Research, Tamil Nadu Commissioner of Archives &, Tamil Nadu Archives, 6, Gandhi Irwin Rd., Egmore, Madras 600008.

Industrial & Scientific Research Assocn., 96, Mount Rd., Madras 600018.

Library and Research Centre, Adyar, The Theoso-hical Socy., Adyar, Madras 600020.

Plastic Research Centre, Fibre Reinforced, I.I.T., Madras 600036.

Soil Conservation Research, Demonstration and Trg. Centre, Patna House, Ootacamund 643001.

Steam & Fuel Users' Assocn. of India, Joint School Compound, Stephenson Rd., Perambur Barracks, Madras 600012. Service to industries all over India in energy conservation and economic steam generation, utilisation & elimination of waste in the combustion of all types of fuel. Technical advice & assistance.

Tamil Devpt. and Research Council, Directorate of Tamil Devpt., Kuralagam, 2nd Flr., Madras 600001.

Tamil Isai Sangam, Rajah Annamalai Hall, Madras 600001. Research in Tamil music and to encourage further musical compositions in Tamil.

Tamil Research, International Instt. of, 14/1, Off Sterling Rd., Madras 600034.

Tamil, Sanskrit & Other Indian Languages Research Instt., 16-A, Marshall's Rd., Madras 600008.

Testing Laboratory, Regional (Govt. of Tamil Nadu), Indl. Estate, K. Pudur, Madurai 625007. Physical testing and chemical analysis of raw materials and products are carried out in addition to furnishing of technical opinion on chemical and other allied industries in this laboratory.

Textile Research Assocn., South India (Min. of Industry, Govt. of India), Coimbatore 641014.

UTTAR PRADESH

Geology, Wadia Instt. of Himalayan, Dehra Dun 248001.

Grain Storage Research & Trg. Centre, Meerut Rd., P.O. Box 10, Hapur 245001.

Irrigation Research Instt., U.P., Roorkee 247667.

Music & Performing Arts (RIMPA), Research Instt. for, 'Hemangana', S. 13/131, Tarana Bazar, Shivpur, Varanasi 221002.

Nature Cure Council of Medical Research, 52-57, Gwyne Rd., Lucknow 226001.

Palaeobotany, Birbal Sahni Instt. of, 53, University Rd., Lucknow 226007. Research on fossil plants in its purely scientific aspects and its application to problems of economic geology; coal and petroleum prospecting; library of 9,000 vols., 24,000 reprints and 225 micro-films, etc.

Soil & Water Conservation Research & Trg. Instt., Central, Dehra Dun 248195.

Vedic Research Instt., Maharshi, P.O. Shankaracharya Nagar, Rishikesh 249805.

Vedic Sadhana Ashram, Arshi Gurukul, Tapovan, Dehra Dun 248001. Vedic research & education.

WEST BENGAL

Astro-Research Bureau, 17, Brindaban Mullick 1st Lane, Calcutta 700025.

Bose Instt., 93/1, Upper Circular Rd., Calcutta 700009. Research work in different fields of life sciences.

Folk Culture, Research Instt. of, 32, Becharam Chatterjee Rd., Calcutta 700034.

Homoeopathy, Central Research Instt. of, 37, Jodhpur Park, Calcutta 700031.

Jute Industries' Research Assocn., Indian, (Min. of Industry, Govt. of India), 17, Taratola Rd., Calcutta 700053.

Medical Aid and Research Socy., Calcutta, 130, Sarat Bose Rd., Calcutta 700029.

Plywood Industries Research Instt., Indian, 2/2, Biren Roy Rd. West, Sarsuna, Calcutta 700061.

River Research Instt., 11A, Free School St., Calcutta 700016.

Scientific Research Instt., Usha, 14, Princep St., Calcutta 700072. Research & development in the field of steel wires and wire rope industry, wire drawing machines, alloy steel making and in related sectors.

Sciences, Indian Assocn., for the Cultivation of Jadhavpur 700032. Fundamental research in differen branches of physics and chemistry.

Socio-Economic Research Instt., C-19, College M Calcutta 700012.

Tea Research Assocn., 6, Netaji Subhas Rd., Calcu 700001.

Torsteel Research Foundation in India, 4, Govt Place North, Calcutta 700001.

SPACE RESEARCH

THE Indian Space Programme began in the year 1962 when the **Indian National Committee for Space Research** (INCOSPAR) was formed in the Department of Atomic Energy of the Government of India. In 1969, the **Indian Space Research Organisation** (ISRO) was created to plan, manage and execute the nation's growing activities in Space Science, Space Technology and Space Applications.

The Government of India established the Space Commission in June 1972, backed by the Department of Space (DOS) and entrusted DOS with the responsibility for conducting India's space programme. ISRO functions under DOS as its research and development organisation.

The Space Commission, the Department of Space and the Indian Space Research Organisation have their Headquarters in Bangalore. (For personnel see chapter on Central Government Administrative Personnel.)

The primary aims of the Indian Space Programme are the application of space science and technology to further national developmental objectives in mass communication and education via satellites; the survey and management of natural resources through remote sensing technology from space platforms and the development of space technology with the maximum degree of self-reliance.

The activities of ISRO are carried out at its four Space Centres : 1. **Vikram Sarabhai Space Centre** (VSSC), Trivandrum, Kerala ; 2. **ISRO Satellite Centre** (ISAC), Bangalore, Karnataka ; 3. **SHAR Centre,** Sriharikota, Andhra Pradesh ; 4. **Space Applications Centre,** Ahmedabad, Gujarat.

In addition, DOS provides major support to the **Physical Research Laboratory** (PRL) at Ahmedabad which is India's prime centre for research in space sciences.

Vikram Sarabhai Space Centre (VSSC) : Named after the late Prof. Vikram A. Sarabhai, the founder of the Indian space programme, VSSC encompasses all aspects of work related to the development of sounding rockets and satellite launch vehicles, scientific and technological payloads, ground-based and vehicle-borne instrumentation and production facilities for propellants and rocket hardware. VSSC is developing the **Menaka** and **Rohini** (including **Centaure**) series of sounding rockets for meteorological and scientific investigations of the upper atmosphere, respectively, and a **satellite launch vehicle** called SLV-3. SLV-3, a four-stage solid propellant rocket, is designed to place a 40 kgs. satellite, called **Rohini** (RS-1) into an elliptical orbit of 300 kms. perigee and 885 kms. apogee with a maximum lifetime of 100 days. SLV-3 will be about 23 metres in length and its maximum diameter will be one metre and expected to be launched from Sriharikota by the end of 1979. The RS-1, polyhedral in shape and weighing about 40 kgs. is the first of the **Rohini** series of satellites which will be launched by SLV-3.

The Space Science and Technology Centre (SSTC of the VSSC is the main research and development laboratory. Solid propellant for the rockets is produced at the Rocket Propellant Plant while the rockets and other hardware are manufactured at the Rocket Fabrication Facility (RFF). The Propellant Fuel Complex (PFC) produces special materials required for the processing of propellants. Liquid propellants for rockets have also been develope on a laboratory scale.

VSSC operates and maintains the **Thumba Equatoria Rocket Launching Station** (TERLS) which has been recognised by the United Nations Organisation as an international facility for sounding rocket experiments to investigate problems of meteorology and ionosphere over the geomagnetic equator running close to Thumba and for other experiments. Since November 1963, when the range became operational, more than 500 sounding rockets of different makes have been launched for meteorologica ionospheric, aeronomic and astronomical studies. Scientists from France, Federal Republic of Germany, Japan the UK, the USA and the USSR have participated, in co-operation with their Indian counterparts, in many of these experiments.

ISRO Satellite Centre (ISAC) : ISAC is responsible for the design, fabrication and integration of spacecraft and the development of satellite technology. The first Indian satellite, **Aryabhata,** named after the famous ancient Indian astronomer and mathematician, was designed and fabricated by this Centre. Aryabhata, a 360-kg. satellite was launched on April 19, 1975 into a near-circular orbit of 600 kms. at an inclination of 51° to the equator from a Soviet cosmodrome using a Soviet rocket. The ground stations, one at Bears Lake near Moscow and the other at SHAR Centre were used for command and data reception purposes. The spin-stabilised satellite survived in orbit well beyond the design lifetime of six months owing to low rate of spin decay. All technological systems on board the satellite have been functioning well.

With the launching of Aryabhata, India has acquired indigenous capability in satellite technology, namely to design and fabricate space worthy system and evaluate its performance in orbit, evolve the methodology of conducting a series of complex operations on the satellite and set up the necessary receiving, transmitting and tracking systems besides the establishment of the infrastructure for fabrication of satellite systems.

The second Indian satellite designated '**Satellite for Earth Observations** (SEO)' will obtain useful information in the areas of hydrology, forestry, oceanography and meteorology. SEO was to be launched from the Soviet Union in 1978. The mission control centre is located at the SHAR Centre and the ground stations at Trivandrum and Ahmedabad will receive signals from SEO.

Rohini Satellites (RS-I) : The primary mission of RS-1 is to evaluate the performance of SLV-3, its dynamic characteristics, the trajectory of the vehicle and the orbital characteristics of the satellites.

Apple Satellite: ISAC is also responsible for the development of a 616 kgs. three-axis stabilised geostationary experimental communication satellite called 'APPLE'. The communications payload for the satellite will be built at the Space Applications Centre, Ahmedabad. Certain important sub-systems such as Apogee Boost Motor and secondary propulsion will be built at VSSC. A project, the Indian Experimental Satellite for Communication has been organised for building the APPLE spacecraft, and design activities and the establishment of facilities are underway. The satellite is expected to be launched by an Ariane test flight of the European Space Agency in 1980.

SHAR Centre : The SHAR Centre at Sriharikota island, off India's east coast, is about 100 kms. north of Madras city. It is being developed as a range for launching large multistage sounding rockets and satellite launch vehicles. Facilities to launch sounding rockets up to 560 mm in diameter have been established and these are being expanded for launching larger and heavier rockets. The augmented facilities will be used for flight-testing different stage combinations of SLV-3.

A satellite launch complex, along with supporting facilities is being established and is expected to be ready soon for flight-tests of SLV-3. To meet the propellant requirements of large vehicles, a plant with an annual production capacity of 250 tonnes of solid propellants, with provision for further expansion, has been set up. A comprehensive test facility for conducting various ground tests of rocket motors and sub-systems has been set up at Sriharikota.

Space Applications Centre (SAC) is engaged in the planning and execution of the space application projects of ISRO. Its objective is to apply space science and technology to practical uses. To achieve this goal SAC has taken up work in : telecommunications and television broadcasting and reception via satellites ; use of remote sensing techniques to survey natural and renewable earth resources ; studies in space meteorology and satellite geodesy.

This Centre conducted the **Satellite Instructional Television Experiment** (SITE), the year-long (August 1st, 1975 to July 31st, 1976) experiment in direct broadcast of television programmes via the NASA satellite, ATS-6.

Community TV sets were installed in 2,400 villages in Rajasthan, Bihar, Orissa, Madhya Pradesh, Karnataka and Andhra Pradesh and instructional programmes were beamed directly via the satellite.

Under an agreement between ISRO and the Symphonie, one of the two transponders aboard the Franco-West German 'Symphonie' satellite with a bandwidth of 90 MHz, has been made available for Indian experiments in satellite telecommunications for two years beginning from June 1977. This is known as the **Satellite Telecommunications Experiments Project** (STEP) and is being executed as a joint project of ISRO and the Posts and Telegraphs Department of the Ministry of Communications. Under STEP, experiments in remote area communications using transportable terminals, radio-networking, emergency communications, digital communications, multiple access, integration of satellite circuits into terrestrial networks and multiple audio-video transmissions will be conducted. The project is mainly aimed at providing a system test of geo-synchronous communication satellite and sharpen India's expertise in the design, development, fabrication and operation of communication systems involving geo-stationary satellite.

The ground network for STEP consists of the following terminals : The earth stations at Ahmedabad, Delhi and Madras ; Transportable Remote Area Communication Terminal (TRACT) and, the Emergency Communication Terminal.

Except for the Madras Earth Station, the modification, fabrication and operation of all other stations are the responsibilities of ISRO. ISRO has fabricated the antenna system and the high-power amplifier for the Madras Earth Station. The Ahmedabad and Delhi Earth Stations are existing stations which have been modified for STEP. TRACT was fabricated at SAC and was tested with ATS-6 in July 1976. The Emergency Communication Terminal, a miniaturised and ruggedised communication system, is mounted on a jeep in such a way that it can be detached easily and the whole container air-lifted in emergencies like natural calamities when the terrestrial communication system is disrupted.

One important area of activity of SAC is the remote sensing of natural and renewable resources. ISRO and the Indian Council of Agricultural Research (ICAR) conducted, during 1974-75, a joint experiment called the **Agricultural Resources Inventory and Survey Experiment** (ARISE) employing remote sensing techniques to assess crops and land-use pattern. Aerial flights using Hasselblad cameras were conducted over Anantapur district of Andhra Pradesh and Patiala district of Punjab. The results indicated that the level of details regarding agricultural features, land-use pattern, etc., which remote sensing data can give is far higher than the published and available DES (Directorate of Economics and Statistics, Ministry of Agriculture) data. This has important implications in planning at the micro level. Photo-interpretation of the imageries taken have been done and classifications of crops and of land-use pattern pertaining to orchards, forests, fallow lands, agricultural lands and water bodies have been made. Analysis and interpretation of the data collected are in progress.

The remote sensing techniques can be applied for a wide range of purposes such as collection of data relating to agriculture (crop vigour, crop census, classification of soil, etc.), detection of minerals, management of water resources, forest inventories and meteorological studies. SAC is developing sensors for use from balloons, aircraft and spacecraft to collect data for these applications. Some of these sensors are : infra-red scanner, multispectral scanner, microwave radiometer and the vidicon TV camera.

About ten remote sensing experiments have so far been conducted to study aspects of agriculture and landscape features over sites in Pune, Bombay, Sriharikota island, Jaipur, Bangalore, Anantapur district in Andhra Pradesh, Patiala district in Punjab and Panchmahals district in Gujarat.

INSAT : The Department of Space, in close co-operation with the Ministries of Communications, Tourism and Civil Aviation and Information and Broadcasting, has initiated the establishment of the **Indian National Satellite** (INSAT) System. The INSAT system is a multi-purpose operational space system providing telecommunications, meteorology and television services from a common satellite in geostationary orbit. The proposed system envisages a very significant telecommunications component providing for long distance telephony, communication with remote areas and islands and emergency communications. The proposed meteorological capability includes 24-hour observation of weather system, data collection and relay from remote unattended platforms and a disaster warning. Television capability relates both to direct TV broadcasting from satellite to community TV sets in rural areas and to radio networking. The Government of India has approved the implementation of the INSAT-I system. It is expected to be operational sometime in the first quarter of 1981.

ESCES : SAC operates the **Experimental Satellite Communications Earth Station** (ESCES), Ahmedabad, which is an international Centre for training in satellite telecommunications technology.

STARS : The **Satellite Tracking and Ranging Station** (STARS) was formally inaugurated on January 23, 1977 at Kavalur in Tamil Nadu. In addition to the tracking cameras there is also a ranging laser at the station. Equipment for this station has been supplied by the USSR Academy of Sciences. The station is located at the campus of the observatory of the Indian Institute of Astrophysics at Kavalur. Using this facility it will be possible to determine orbits of our own satellites accurately and also the data collected by this station will be useful for geodetic purposes.

PRL : The **Physical Research Laboratory** has been the cradle of Space Science in India and is being further developed as a national centre in this field. Its activities are supported mainly by DOS. PRL conducts basic research in many areas of space sciences for understanding the structure and dynamics of the earth's upper atmosphere, the solar terrestrial relationship and astrophysical problems. For these studies, data are collected through laboratory experiments, ground based observations and measurements with rocket-borne instruments. PRL scientists participate in many rocket-borne experiments at TERLS. They also use the data received from various orbiting scientific satellites of other countries. Investigations on lunar samples and meteorites, and laboratory studies of plasma for understanding certain ionospheric phenomena and astrophysical problems are also conducted at PRL. Climatological and hydrological studies are also undertaken.

Sponsored Research : Various universities and academic institutions in the country are identified and encouraged by ISRO to undertake research and development studies in Space Science, Space Technology and Applications relevant to the Indian Space Programmes.

ATOMIC ENERGY

PROGRAMME

THE Indian atomic energy programme was launched chiefly to supplement the limited conventional energy resources to meet the long term electricity needs of the country, to produce nuclear power and to utilise nuclear techniques in agriculture, industry, medicine and other areas. The **Atomic Energy Commission** was constituted in 1948 as the policy making body of the Government of India for the development and utilisation of atomic energy.

The Atomic Energy Establishment was set up at Trombay in 1957 (renamed in 1967 as Bhabha Atomic Research Centre) for carrying out research in basic sciences, development of nuclear technologies based on indigenous resources, and demonstration of their economic viability.

The production of nuclear fuels, control instruments, reactor components, plant and machinery, research equipments, high purity metals and materials required for the atomic energy programme is undertaken either under the aegis of the Department of Atomic Energy or by the industry with active encouragement through scientific and technical assistance from the Department.

Over the last few years, the Department has placed considerable emphasis on the following areas in addition to its main task of nuclear research and development producing commercial nuclear power and applying nuclear techniques to agriculture, industry, medicine etc. These activities are :

(*a*) Training and development of personnel in different fields of science and technology related to the atomic energy programme.

(*b*) Development of the nuclear equipment/industry, both in the public and private sectors.

(*c*) Transfer of technology from research centres to industry in several non-nuclear areas.

(*d*) Planning and implementation of pilot level and semi-commercial demonstration projects to extend the benefits of atomic energy in industry, medicine, agriculture and research.

(*e*) Assistance, both financial and otherwise, to various academic and other institutions for promoting research and other activities that are beneficial to the atomic energy programme.

ATOMIC ENERGY ESTABLISHMENTS

The **Bhabha Atomic Research Centre,** Trombay which was set up as the Atomic Energy Establishment in 1957 and renamed in 1967, is the national centre for research and development work in nuclear energy and related disciplines. Its facilities include four research reactors, namely, *Cirus* (40 MW), *Apsara* (1 MW), *Zerlina* (a zero energy thermal reactor), and *Purnima* (a zero energy fast reactor), a 5·5 MeV Van de Graaff accelerator, a H-400 computer, a BESM-6 computer, and various special laboratories. It also has a uranium metal plant, a fuel element fabrication plant, a plutonium plant etc.

The **Reactor Research Centre** has been set up at Kalpakkam, Tamil Nadu, adjacent to the Madras Atomic Power Station. The most important facility in this Centre will be the Fast Breeder Test Reactor which will provide experience in the design, construction and operation of a plutonium-fuelled, sodium-cooled fast reactor. It will also serve as an irradiation facility which is essential for developing fuel for the large fast breeder reactors of the future. The other facilities at the Reactor Research Centre will help in the construction and operation of the Fast Breeder Test Reactor and use of the test reactor for studies in connection with future fast breeders.

The **Gauribidanur Seismic Station** (of the Bhabha Atomic Research Centre), 80 kilometres north of Bangalore, was set up towards the end of 1965 in collaboration with the U.K. Atomic Energy Authority. It has an array of 2 short-period seismographs and 3 long-period seismographs deployed over an area of 25 km × 25 km. It helps in the detection and identification of underground nuclear explosions and also facilitates seismic research.

The **Nangal Heavy Water Plant** in the Punjab operated in conjunction with the Nangal Plant of the Fertilizer Corporation of India, was commissioned in August, 1962. It has an annual capacity of about 14 to

The **Kota Plant** being built by the Department of Atomic Energy next to the Rajasthan Atomic Power Station will produce about 100 tonnes of heavy water a year. The plant is based on the know-how generated by BARC.

The **Baroda Plant** based on the ammonia hydrogen exchange process developed by a French consortium, is linked to the synthesis gas stream of the Gujarat

Corporation plant. Its capacity is 67·2 tonnes of heavy water a year.

The **Tuticorin Plant** will be similar to the Baroda Plant and will be linked to the fertilizer plant of the Southern Petrochemical Industries Corporation. Its capacity will be 71·3 tonnes of heavy water per year.

The **Talcher Plant,** equipment and know-how for which are being obtained from a West German firm, will use the synthesis gas stream of the Ammonia Plant being set up at Talcher by the Fertilizer Corporation of India. It will produce 62·7 tonnes of heavy water a year.

The **Nuclear Fuel Complex** in Hyderabad which is designed to meet the fuel requirements of nuclear power reactors consists of the following: 1. Zirconium Oxide Plant. 2. Zirconium Sponge Plant. 3. Zircaloy Fabrication Plant. 4. Uranium Oxide Plant. 5. Ceramic Fuel Fabrication Plant. 6. Enriched Uranium Oxide Plant. 7. Enriched Fuel Fabrication Plant. 8. Special Materials Plant. Two more plants — a Seamless Tubes Plant and a Titanium Pilot Plant — are also being set up in the Complex.

The **Power Reactor Fuel Reprocessing Plant,** Tarapur, has been built by the Bhabha Atomic Research Centre. This plant processes the irradiated fuel from the Tarapur and Rajasthan Atomic Power Stations.

The **Variable Energy Cyclotron** has been set up at Bidhan Nagar, Calcutta, by the Bhabha Atomic Research Centre. It is a national facility for advanced work in nuclear physics and for the controlled direct irradiation of biological and agricultural products.

The **High Altitude Research Laboratory,** Gulmarg, which was set up by the Department of Atomic Energy in 1963, provides facilities for high altitude research to all scientific institutions and universities in the country.

The **Nuclear Research Laboratory,** Srinagar, is devoted to applied research in nuclear and radiation physics, with particular emphasis on local problems.

The **Atomic Minerals Division** is responsible for surveying, prospecting and exploratory development of atomic minerals required for the atomic energy programme. It carries out various types of surveys, such as airborne, jeep, ground and offshore submarine surveys. These field activities are supported by well-equipped petrology, minerals technology, chemistry and physics laboratories.

The **Tarapur Atomic Power Station,** 100 kms. north of Bombay is the first atomic power station in India. It has two boiling water type reactors fuelled by enriched uranium with a total output of 400 MWe, which is supplied to Maharashtra and Gujarat.

The **Power Projects Engineering Division** undertakes the design, construction and commissioning of nuclear power plants. It is presently engaged in building the second unit of the Rajasthan Atomic Power Project, and the Madras Atomic Power Project. It has also taken up work on the fourth atomic power station at Narora.

The **Rajasthan Atomic Power Station** at Rana Pratap Sagar in the State of Rajasthan is under construction. It has two natural uranium-fuelled and heavy water moderated Candu-type reactors (one already operating), with a total output of 440 MWe.

The **Madras Atomic Power Station,** about 80 kms. south of Madras, will have two Candu-type reactors similar to the Rajasthan reactors. It will be indigenous to the extent of about 80 per cent. There is no foreign collaboration in its construction.

The **Narora Atomic Power Station,** U.P., will consist of two units of 235 MWe each of a modified design.

The **Indian Rare Earths Ltd.,** a Government of India company functioning since 1950, operates the mineral sands industry in Manavalakurichi and Chavara, and the rare earths industry at Alwaye. It also produces thorium products at Trombay on behalf of the Government.

The **Electronics Corporation of India Ltd.,** Hyderabad, was formed in April, 1967 and gradually took over the work of the Electronics Production Unit of the Bhabha Atomic Research Centre. It produces on a commercial scale a variety of nuclear and non-nuclear instruments, control equipment, components etc. developed by the Bhabha Atomic Research Centre and the Tata Institute of Fundamental Research.

The **Uranium Corporation of India Ltd.,** Jaduguda, was formed in October 1967. It is responsible for the development of the uranium mine and operation of the uranium mill at Jaduguda.

The **Tata Institute of Fundamental Research,** Bombay, was founded in June 1945. It is the national centre for nuclear science and mathematics. It has two schools: the School of Mathematics and the School of Physics (experimental physics, theoretical physics, astrophysics, geophysics, computer science, molecular biology and radio astronomy). Its special facilities include a National Computation Centre (with a CDC 3600–160A computer system), a balloon fabrication and flying facility (at Hyderabad), Tritium Laboratory for hydrological studies, an electron microscope, a 1 MeV Cascade generator, a 3·5 MeV electron linear acclerator, X-ray units, and electromagnetic mass separator and liquid Nitrogen and liquid Helium plants.

The **Tata Memorial Centre,** Bombay, comprises two institutions: The Tata Memorial Hospital and the Cancer Research Institute. In addition to being one of the foremost cancer treatment centres in the country, it also conducts extensive research on cancer.

The **Saha Institute of Nuclear Physics,** Calcutta, was formally opened in June 1950. Its fields of research include: electron microscopy, EPR spectroscopy, mass spectrometry, microwave absorption spectroscopy, molecular biology, NMR spectroscopy, NCR spectroscopy, nuclear activation, nuclear reactions, nuclear spectroscopy, radiochemistry, solid state physics, structural crystallography, technical physics and theoretical nuclear physics.

GENERAL SURVEY

The Power Reactor Fuel Reprocessing Plant at Tarapur, which is wholly indigenous in design and construction, is complete and is already on an initial run reprocessing spent fuel.

The **Variable Energy Cyclotron** (VEC), Calcutta, was commissioned for the internal beam. A circulating beam of alpha particles accelerated to energies where it can produce radioactivity in copper, was first obtained at 6 a.m. on June 16, 1977. During the subsequent runs, alpha particles were accelerated upto the full radius of 99 cms, which is the design radius for the extraction of the beam outside the cyclotron chamber. The complete assembly was done by BARC entirely indigenously with the assistance of some of the leading public and private sector industries in the country. The programme for obtaining an external beam is continuing.

The 100 MW **thermal research reactor** project (R–5), with 100 per cent indigenous design and detailed engineering, is progressing at Trombay. Its building superstructure upto the roof level is almost complete and major components such as the reactor vessel, coolant channel assemblies etc. are under fabrication. The reactor will give great impetus to research and development activities in the country in the fields of nuclear engineering, physics, chemistry, activation analysis and biology. It will also produce radioisotopes of specific activities higher than what is hitherto possible at Trombay.

Another important R & D project on hand is Magneto-hydrodynamics (MHD) Power Generation. Located at Tiruchirapalli, the Project is a joint venture of BARC and Bharat Heavy Electricals Ltd. The MHD technique relates to the direct conversion of thermal energy to electrical power. The technology is expected to improve the thermal efficiency of fossil-fired power plants from the present 30–40 per cent to 50 per cent, and even higher.

A computer based control system, for operating fuelling machines of the pressurised heavy water (PHW) type of reactors which are at the Rajasthan Atomic Power Project and under construction at Kalpakkam and Narora, has been developed during the year. This is the first sophisticated computerised control system wholly developed in the country and marks a major advance towards eventual computer control of a nuclear reactor.

BARC has also built and commissioned a flash X-ray generator in a national laboratory at Chandigarh. The flash X-rays have many applications in high-speed radiography, pulse radiolysis and X-ray cinematography.

Production of wide range of radioisotope preparations and associated equipment is a major activity at the BARC. During the year the Centre supplied over 40,000 consignments of various radioactive products to users in India and abroad.

Important developments in this area include installation of a 50,000 curies cobalt–60 panoramic batch irradiator at Baliapatam, Kerala and receipt of an order for the supply and installation of a similar unit with 75,000 curies of cobalt–60, on a turn-key basis, at the Pasar Jumar Research Centre, Indonesia. A scale-up process for wood-polymer composite has also been developed. This process will help the country tide over the scarcity of high-grade timber by upgrading the inferior native timbers with monomer impregnation and gamma irradiation. The Nuclear Research Laboratory at Srinagar, has also been carrying on radiation polymerisation studies on cheap and fast growing local woods, willow and poplar, to assess the commercial feasibility of using them in the wood-carving industry.

Isomed, the radiation sterilisation plant at Trombay, sterilised a total of 1,130 cu.m. of various medical products during the year. Some 1,50,000 ready-to-use surgical kits were also supplied by it for use in minor surgical operations.

Trombay Groundnut (TG) strains were multiplied in Saurashtra, Maharashtra, Madhya Pradesh and Andhra Pradesh. About 2,000 tonnes of improved seeds were raised for further distribution. Yield studies have shown that TG–17 is suitable for Gujarat and TG–3 for Madhya Pradesh.

Five **Trombay Jute** (TJ) mutants were grown at different locations in Eastern India along with check varieties in yield trials under the All India Co-ordinated Programme on Jute and Allied Fibres. One of them (TJ–32), gave 26 per cent more fibre yield compared to the highest yielding check variety. Two other mutants were also found to be significantly superior to the best check variety.

As a follow-up of the work on uranium exploration (BARC-TEFUREX) developed earlier, a field study was conducted in Romehra in Himachal Pradesh. The results obtained in this area and other areas surveyed earlier are promising enough to encourage massive application of this technique all over the country.

The country-wide personnel monitoring service for evaluating radiation exposure covered around 45,000 workers from nearly 2,400 institutions. The country-wide radiological protection surveys, covering source-loading operations of teletherapy units also, were conducted in 138 institutions consisting of 113 medical, 19 industrial and 6 research institutions.

NUCLEAR EXPLOSION

The first peaceful underground nuclear explosion at Pokhran in the Rajasthan desert was conducted on May 18, 1974.

ANDAMAN AND NICOBAR ISLANDS

(Union Territory)

HEADQUARTERS : Port . Blair ; **Population :** 26,218.

Area of the Territory : 8,293 sq. kms. (Andamans 6,340 sq. kms. Nicobars 1,953 sq. kms.) ; **Population :** 115,133 ; **Density :** 14 per sq. km. ; **Sex ratio :** 644 females per 1,000 males ; **Literacy :** 43·59 per cent.

No. of villages : 399, (both inhabited and uninhabited) as per 1971 census.

Boundary: The Andamans are a string of islands of various sizes, large and small, lying between 6° and 14°N latitude and from 92° and 94°E longitude in the Bay of Bengal. They have an average width of 24·13 kms. and an axis of about 321·8 kms. The northernmost 'Land-fall Island' is 901·13 kms. from the mouth of the river Hoogly. The headquarters Port Blair is about 1,255·25 kms. and 1,191 kms. from Calcutta and Madras respectively.

The main part of the Andaman group is composed of five large islands (Total number of islands, big and small is 265), viz., North Andaman, Middle Andaman, South Andaman, Baratang and Rutland Islands generally known as the Great Andamans. To the south of the Great Andaman is the island of Little Andaman. These islands consist mostly of a mass of hills covered with dense tropical forests and separated by three straits and several creeks.

The Nicobar Islands (58 in number) from Car Nicobar in the north to Great Nicobar in the south intervene between Little Andaman and Sumatra. The southern island of Great Nicobar is about 480 kms. from Port Blair. These islands are partly hilly and partly flat. The most important harbour in the area is Nancowrie reputed to be the finest harbour in the east.

Population according to language spoken : Sanskrit nil ; Sindhi : 7 ; Tamil : 14,518 ; Telugu : [illegible] ; Urdu 2,488 ; Assamese : 17 ; Bengali : 28,120 ; Gujarati : 159 Hindi : 18,499 ; Kannada : 201 ; Kashmiri : 8 ; Mal 13,953 ; Marathi : 115 ; Oriya : 250 ; Punjabi : 1,0

AGRICULTURE : Total reporting area is about [illegible] hectares. The principle crops are rice, coconut and arecanut. Rice production during 1976–77 was 18,[illegible] Commercial production of rubber, coffee, red palm oil and spices like clove, cinnamon, nutmeg and black pepper is considered good. About 18·46 per cent of the total working population is engaged in agricultural pursuits.

Forests : Forests cover an area of 7,464 sq. kms. These forests yield timber to the plywood and matchwood industries.

The species of timber found in the forest region are mainly Padauk, Gurjan, White Chuglam, Papita etc. The Forest Department exports approximately 36,000 cubic metres of timber to the mainland.

Animal Husbandry: Veterinary hospitals : 5 ; veterinary dispensaries : 4; minor veterinary dispensaries : 21 ; disease investigation laboratory : 1 ; artificial insemination centres : 6 ; artificial insemination sub-centres : 10 ; key village blocks : 2 ; key village units : 6 ; govt. poultry farm : 1 ; cattle farms : 3 ; govt. grassfarm : 1 ; piggery demonstration units : (Nicobar, Strait Islands and Dugong Creek) : 3 ; quarantine unit : 1.

Livestock : Total No. of livestock : 76,948 ; poultry : 157,245.

Power Projects : A.C. electric supply in Port Blair was started in 1951. The present installed capacity of the Chatham and Phoenix Bay power stations is 5,102 kw.

Apart from Port Blair, electricity is available for the public at the following places. The installed capacity of the power house in (kw) is also given.

Wimberlygunj 72 ; Bamboofiat 248 ; Mayabunder 96 ; Diglipur 72 ; Rangat 744 ; Car Nicobar 144 ; Nancowrie 53·5 ; Biglapathy 44·5 ; Campbell Bay 72 ; Neil Island 47 ; Havelock 53 ; Baratang 23 ; East Bay Katchal 53 ; and Kadamtalla 47.

INDUSTRIES : The main industries are saw milling, plywood manufacture, construction and forestry which provide employment to about 13,200 workers. Other industries include boat building and repairing, timber, printing and book-binding, match splints and wood work.

Type of industries, number of units and workers engaged in them respectively are : saw milling : 3 ; 1,040 ; construction : 10 ; 7,562 ; timber : 2 ; 505 ; plywood : 2 ; 690 ; forestry : 3 ; 2,561 ; wood and cork except furniture : 6 ; 2,337 ; transport : 4 ; 1,150 ; electricity : 1 ; 77 ; other miscellaneous industries : 14 ; 8,651.

Labour : No. of Unions : 17 ; No. of Members : 8,186 ; No. of Strikes : 13 ; Man-days Lost : 7,670 ; Total employed : Industry : 13,300.

EDUCATION

	No. of Institutions	Students	
		Boys	Girls
Schools			
Pre-Primary Schools ..	15	437	369
Junior Basic Schools ..	155	6,808	5,652
Senior Basic Schools ..	35	6,468	4,768
Higher Secondary Schools ..	7	2,082	1,560
High Schools	11	3,113	2,302
Colleges			
Arts and Science	1	351	225
Teacher's Training Institute	1	25	24
Total	225	19,282	14,900

PUBLIC HEALTH : All treatment, medical or surgical, is completely free. Specialised treatment is also free. For specialised treatment, patients are sent to the mainland at Government expense.

The Gobind Ballabh Pant Hospital, Port Blair, is the largest civil hospital with 192 beds. All types of treatment, except for cancer and mental diseases, are provided here. There is also a 50 bed T.B. hospital and a 20-bed isolation hospital at Port Blair. Besides, there are 9 civil hospitals, two primary health centres and 63 dispensaries. The hospitals are located at Port Blair, Bamboofiat, Car Nicobar, Nancowrie, Campbell Bay (Great Nicobar), Rangat, Mayabunder, Diglipur, Billiground and Long Island. The primary health centres are located at Wimberlygunj (South Andaman), Diglipur (North Andaman) and Kapanga (Katchal). The total bed strength of hospitals and primary health centres is 555.

No. of doctors : 56 ; number of nurses : 110 ; amount spent on medicine and equipment : (1976-77) : Rs. 3,163,400.

COMMUNICATIONS : Length of motorable roads : 500 kms. ; no. of State Transport buses : 54 ; no. of passengers carried by State Transport daily : 13,200.

Shipping : Two passenger-cum-cargo ships *viz. M. V. Haryana* and *M. V. Andamans* and two cargo ships *viz. M.V. Viswa Anand* and *M.V. Shompen* ply between mainland ports and Port Blair. The passenger vessels normally ply from Calcutta and Madras and sometimes from Visakhapatnam also.

As far as inter-island communication is concerned, ferry vessels *viz. S.S. Cholunga, T.S.S. Yerawa* and *M.V. Onge* ply on a regular schedule to the Northern as well as Southern Group of Islands. In addition to the above vessels some other vessels ply in the narrow creeks and harbours carrying passengers and cargo to places inaccessible to the larger vessels. The *M.V. Little Andaman* and the *M.V. Yamuna* carry out ferry services between Port Blair and Rangat via Havelock and Neil Island. The *M. V. Ganga* operates harbour ferry services at Port Blair.

Harbours: Port and harbour facilities have been provided at Diglipur, Mayabundar, Rangat, Havelock, Neil, Port Blair and Hut Bay (Little Andaman) and at Malacca (Car Nicobar), Katchal, Kamorta and Campbell Bay in Nicobar.

Press : "Daily Telegrams" published from Port Blair in English and Hindi ; Circulation 1,100.

GENERAL

Weather : The Islands are exposed to both monsoons with north easterly gale from November to January and south westerly gale from May to October. The weather is good only from January to April and to some extent in October. The average rainfall is 318 cms. The temperature varies between 21°C and 34°C throughout the year.

Panchayats : 38 gram panchayats and 38 nyaya panchayats continue to function in the South, Middle and North Andamans. In the Nicobar group of islands, the traditional panchayats continue to function.

Banks : The State Bank of India has branches at Port Blair, Rangat, Hut Bay, Car Nicobar, Nancowrie and Diglipur.

The Andaman & Nicobar State Co-op. Bank Ltd. functions with its headquarters at Port Blair and branches at Diglipur, Mayabunder and Wimberlygunj. Two sub-offices at Haddo and Tushnabad, have recently been opened.

The Syndicate Bank has two branches at Port Blair and Campbell Bay.

Tourism: There are two guest houses with 17 beds, one tourist home with 24 beds and one circuit house with six beds at Port Blair, besides guest houses at Rangat, Mayabunder and Car Nicobar.

ANDHRA PRADESH STATE

CAPITAL: Hyderabad. **Area:** 220·36 sq. kms. **Population:** 1,796,339.

Area of the State: 276,754 sq. kms. **Population:** 43,502,708. **Density:** 157 per sq. km. **Sex Ratio:** 977 females per 1,000 males. **Literacy:** 24·56 per cent.

The headquarters of the districts are the towns of the same name except for the following districts with the headquarters in the brackets: East Godavari (Kakinada); K. V. Ranga Reddy (Hyderabad); Krishna (Machilipatnam); Medak (Sangareddy); Prakasam (Ongole), and West Godavari (Eluru).

District	Area in sq. kms.	Population
Adilabad	16,133	1,288,348
Anantapur	19,125	2,115,321
Chittoor	15,763	2,285,536
Cuddapah	15,356	1,577,267
East Godavari	10,970	3,087,262
Guntur	11,377	2,844,488
Hyderabad	7,707	2,791,762
K. V. Ranga Reddy		
Karimnagar	11,824	1,963,928
Khammam	15,872	1,369,892
Krishna	8,734	2,493,574
Kurnool	18,799	1,982,090
Mahbubnagar	18,419	1,932,082
Medak	9,685	1,467,944
Nalgonda	14,242	1,819,738
Nellore	13,058	1,609,617
Nizamabad	7,969	1,313,268
Prakasam	17,620	1,919,995
Srikakulam	9,743	2,589,991
Visakhapatnam	13,799	2,805,366
Warangal	12,875	1,870,933
West Godavari	7,744	2,374,306

Major Cities: with area in sq. kms. and population respectively.

Hyderabad Town Group: 298·51 — 1,796,339; Vijayawada: 66·30 — 344,607; Guntur: 30·01 — 269,991; Visakhapatnam: 94·53 — 363,467; Warangal: 54·98 — 207,520; Rajahmundry: 43·90 — 188·805; Kakinada: 30·51 — 164,200; Machilipatnam: 23·93 — 112,612; Kurnool: 15·02 — 136,710; Nizamabad: 36·86 — 115,640; Tenali: 7·90—102,937; Eluru: 14·38—127,023; Nellore: 13·68 — 133,590.

No. of Villages: (1971) 27,221; **No. of Towns:** 224; **No. of Talukas:** 196.

Boundaries: The State is surrounded in the east by the Bay of Bengal; in the south by Tamil Nadu; in the south-west by Karnataka; in the north-west by Maharashtra, in the north by Madhya Pradesh and in the north-east by Orissa.

State Language: Telugu is the language of the State with Urdu also spoken by a large section.

AGRICULTURE: (See main chapter on 'Agriculture').

The rice production during 1977–78 was 3·75 million tonnes against 3·86 million in 1976–77. Production of jowar increased from 469,000 tonnes in 1976–77 to 716,000 tonnes in 1977–78.

Land Reforms: 428,821 cases have been disposed of by the tribunals. A total of 975,788 hectares of agricultural land had been declared surplus till end of January 1977, b tribunals set up under the Land Ceilings Act. 54 hectares of land had been distributed upto August 31, 197 among 187,452 Scheduled Castes/Tribes and Backward Classes.

Over 910,500 hectares of land had been assigned to th landless people for cultivation out of which 768,910 hectares had been brought under cultivation as on May 31, 197

Animal Husbandry: A cattle farm near Adoni has been established to improve the milk yield of the cattle. Th Central Govt. has sanctioned schemes to raise production of milk, meat and eggs. It aims at calf-rearing in Khammam district, sheep-rearing in Medak, Nellore and Srikakulam districts and poultry development in East Godavari and Karimnagar districts.

Poultry: The Agricultural Refinance and Devlpt. Corpn. (ARDC) is financing a huge poultry project costing Rs. million in Karimnagar district. The project on completion will have 200 units each having 250 birds, a poultry shed, rearing equipment and chicks.

Forests: Forest area of the State is 16·3 million hectares, about 23 per cent of the total geographical area. The per capita forest area is 0·13 hectares against 0·12 hectares for the country as a whole.

Andhra Pradesh forest department has formulated a massive scheme to raise cashew gardens along the coastal districts. There are 2,000 hectares of economically viable plantations under the forest department in the districts of Guntur, Visakhapatnam and Srikakulam besides 5 to 6,000 hectares of afforestation land and areas containing cashew trees. Annually 2,000 tonnes of cashewnut is obtained from these plantations giving a revenue of about Rs. 500,000. There is a programme to raise 7,600 hectares of cashew plantations in the coming 5 years.

The Forest Corpn. has drawn up plans to raise medicinal and oil plantations on a big scale.

Fisheries: With a Coastal line of 960 kms. and fishable area of 81,080 sq. km. and inland water sources of about 320,000 hectares, the potential for development of fisheries held out by Andhra Pradesh is outstanding. There are about 50 major reservoirs and lakes with total water area of 275,000 hectares, in addition to 40,000 ponds and tanks.

There are 856 Fishermen Co-operative Societies with a membership of 80,528. The Andhra Fishermen Central Co-operative Society is the Apex Institution for Andhra area; while the Hyderabad Fishermen Central Co-operative Society is the Apex Body in the Telangana Area.

A Fisheries Training Institute at Kakinada, started in 1958, imparts training to fishermen and Fisheries Officers.

A centrally sponsored Small Farmers Development Agency scheme with an outlay of Rs. 8·07 million is in operation in Srikakulam District which envisages supplying of effective fishing crafts to tap large quantity of fish and prawns.

MAJOR IRRIGATION PROJECTS: [illegible] medium irrigation projects in the Telangana, coastal Andhra, and Rayalaseema regions of the State, involving a total outlay of Rs. 940 million, have been taken up during V Plan. Many of these projects are expected to be completed by the end of the Fifth Plan period.

Fifteen medium sized irrigation projects in the Telangana, coastal Andhra, and Rayalaseema regions of the State, involving a total outlay of Rs. 400 million, are proposed to be taken up soon. These projects are expected to be completed by the end of the Fifth Plan period.

During 1977–78 Planning Commission has sanctioned 6 more medium irrigation schemes, which were expected to increase the irrigation potential by 26,450 hectares of land. For the Rayalaseema region 5 medium irrigation projects have been allocated at a cost of Rs. 27·5 million to irrigate about 38,500 hectares. The State Government has sanctioned Rs. 58·8 million towards minor irrigation which would, on completion, irrigate 88,000 hectares.

MAJOR POWER PROJECTS : (See chapter on Power Projects). Power generation from all sources rose from 784·4 million kwh in 1961 to 1,399·5 million kwh in 1966. During 1972 and 1973 it stood at 3,046·0 million kwh and 3,241·8 million kwh respectively. The total installed capacity stood at 887·9 MW at the end of 1974. Towns and villages electrified at the end of 1974 were 10,654 and agricultural pump-sets energised were 275,002 respectively

The first 110-MW unit of the Nagarjunasagar hydro-electric project was commissioned on June 10, 1978.

Rural Electrification Corpn. has sanctioned Rs. 522·5 million for 141 projects covering 5,700 villages. On completion they will supply power to 63,260 pump-sets, 5,908 small rural industries and 246,000 domestic and commercial connections.

INDUSTRIES : Cycle and cycle accessories, steel furniture, scientific instruments, radios, tape recorders, electric measuring instruments, automobile parts, air conditioners, safety razor blades, PVC cables, switchgear, electrical accessories, stainless steel vessels, agricultural implements, T. V. Sets, light and heavy engineering, cement, fertilisers, oils (edible and non-edibles), drugs and chemicals, food products, electrical and electronic components, petroleum products, ship building and mineral products etc.

There were 5,798 factories in the State in 1975–76 against 5,258 in the previous year.

Cottage Industries : There are about 600,000 handlooms in the State that provide employment to about three million persons.

The handloom goods exported from the State are about 20 per cent of the export from the country.

The important varieties of handloom goods exported are as follows : Bleeding Madras, Madras handkerchiefs, *lungies, sarongs,* silks (printed), *tussar* and *Kalamkari.*

Industrial Development Agencies : Department of Industries, Government of Andhra Pradesh, Hyderabad ; Directorate of Commerce & Export Promotion, Hyderabad ; Directorate of Handlooms & Textiles, Hyderabad ; Andhra Pradesh Industrial Development Corporation, Fateh Maidan Road, Hyderabad 500004 ; Andhra Pradesh Mining Corporation Ltd., 11/5/401-1, Red Hills, Hyderabad 500004 ; Andhra Pradesh State Agro-Industries Corporation Ltd., Intekhab Manzil, A. C. Guards, Hyderabad 500004 ; Andhra Pradesh State Financial Corporation, Chirag Ali Lane, Hyderabad 500001 ; Andhra Pradesh Small Scale Industries Corpn., Hyderabad 500004 ; Andhra Pradesh State Trading Corpn., Hyderabad ; Andhra Pradesh Textile Corpn., Gun Foundry, Hyderabad ; Andhra Pradesh Indl. Infrastructure Corpn. Ltd., Saifabad, Hyderabad 500004.

Industrial Estates and Industrial Development Areas : Industrial estates and industrial development areas have been established through out the State. As on June, 1977 there were 51 industrial estates and 28 industrial development areas in the State. Besides 20 industrial estates and four industrial development areas are in the formative stage. They are situated in the following towns : Viz., Visakhapatnam, Rajahmundry*, Vijayawada, Guntur, Nellore*, Chittoor, Tirupathi*, Nizamabad*, Hyderabad and Commercial complexes in Visakhapatnam, Nellore*, Cuddapah*, Warangal *, Nizamabad* and Hyderabad.

LABOUR (1975) : Strikes 44 ; lock-outs 4 ; total disputes 48 ; no. of workers involved 22,379 ; man-days lost 345,953.

Employment : (Nov. 1977)

No. of employment exchanges	32
Total no. of applicants on live register ..	783,000
Matriculates	288,082
Graduates	59,137
Medical graduates	2,526
Engineering graduates	2,341
Post-graduates	12,446
Women	93,600
Scheduled Castes	78,194
Scheduled Tribes	8,689
No. registered during 1976	353,703
Vacancies notified during 1976	72,809
No. of applicants employed through employment exchanges, 1976	50,359

EDUCATION : Statistics for 1975-76 with no. of schools and students respectively are :

Pre-primary : 128 — 7,253 ; primary : 37,126 — 3,158,594 ; upper primary : 3,931 — 966,961 ; high, higher secondary schools and high schools attached to junior colleges : 3,583 — 1,293,890 ; schools for professional special education incl. oriental schools, physically handicapped and adult literacy centres : 164 — 22,148.

Colleges : (1975–76) : Colleges of gen. education incl. junior colleges : 527 — 267,468 ; colleges for professional education and special education : 110 — 29,099.

Budget Allocation : General education : Rs. 35·20 million ; technical education : Rs. 30 million.

Universities : Andhra Pradesh Agricultural University, Hyderabad 500004 ; Shri Jawaharlal Nehru Technological Univ., Hyderabad 500028 ; Central University of Hyderabad, Hyderabad 500001 ; Andhra University, Waltair 530004; Osmania University, Hyderabad 500007 ; Sri Venkateswara University, Tirupati 517501 ; Kakatiya Univ., Warangal 506002; Nagarjuna Univ., Guntur 522004.

PUBLIC HEALTH : Hospitals (1975–76) : Hospitals 278 ; hospitals for special treatment 27 ; dispensaries 1,118; beds : 22,917 ; govt. doctors : 3,724 ; ayurvedic hospitals and dispensaries : 1,210 ; unani hospitals and dispensaries : 112.

Leprosy Control : Medak leprosy control unit covers 448,000 people. It has 15 sub-centres and 15 survey education and treatment centres. These centres are at Medak, Togita, Patvoor, Ramayanpet, Dongal, Dharamaram, Narsinghi, Wadiaram, Shankarampet, Kulcharamand Yeldurthy. (Details in chapter on 'Public Health').

Family Planning : Facilities are provided through 583 rural and urban centres and the local bodies, voluntary organisations and private medical practitioners also have their clinics. During 1975–76 the State achieved 164,134 sterilisations and 16,838 IUD insertions.

COMMUNICATIONS The following is the vehicular position as on March 31, 1974.

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* Still in the formative stage.

Stage carriages: 8,579; goods vehicles: 24,103; cars and jeeps: 35,317; motor cycles and scooters: 78,882; taxis: 2,809; others: 18,881.

State Transport (30-4-1977): Buses: 4,883; trailers: 10; tankers: 38; staff cars and jeeps: 179; taxis: 10; motor cycles & scooters: 9; training & demonstration vehicles: 18; mobile court vans: 4; tempos: 2; ambulance: 1; other departmental vehicles: 166; no. of passengers carried by State Transport 2,115,000 per day.

The total road kilometrage 28,500 kms.

GENERAL

Mines & Minerals: Andhra Pradesh is the only State in the South having coal reserves. Coal accounts for about 80 per cent of the total value of mineral production in the State.

The name of mineral, estimated reserve (million-tonnes) and location districts are as follows: *Coal:* 3,904; Khammam, Adilabad, Karimnagar, Warangal and West Godavari districts.

Lime Stone: 2,028; Adilabad, Hyderabad, Mahboobnagar, Kurnool, Cuddapah, Guntur, Nalgonda and Krishna districts.

Iron Ore: 401; Anantapur, Karimnagar, Adilabad, Chittoor, Khammam, Prakasam, Krishna, Kurnool and Cuddapah districts.

Bauxite: 30; Visakhapatnam district.

Lead: 6; Guntur district.

Copper: 7; Guntur and Khammam districts.

Clay: 2; East Godavary and Cuddapah districts.

Manganese: 1·81; Srikakulam, [illegible] bad districts.

Barytes: 9·5; Cuddapah, Anantapur and [illegible] districts.

PRESS (Dailies): 1976.

Name	Town
English	
Indian Express	Vijayawada*
Deccan Chronicle	Hyderabad
Telugu	
Andhra Prabha	Vijayawada/Bangalore
Andhra Patrika	Hyderabad/Vijayawada
Andhra Jyoti	Vijayawada
Andhra Bhoomi	Hyderabad
Eenadu	Hyderabad/Visakhapatnam
Urdu	
Siasat	Hyderabad
Rahnuma-e-Deccan	,,

* Combined of Madurai, Bangalore, Madras and [illegible]

† Figure relates to 1975.

Annual Plan (1978–79): Annual plan outlay [illegible] State is Rs. 4,490 million — Rs. 650 million [illegible] the 1977–78 outlay. Top priority was given [illegible] irrigation projects — Rs. 1,800 million and Rs. [illegible] million respectively. Welfare schemes for backward [illegible] have been allotted Rs. 58·1 million.

Rivers: The Godavari, the Krishna, the [illegible] Papagni, the Tungabhadra, the Musi, the [illegible] Chitravati, the Vamsadhara and the [illegible]

ARUNACHAL PRADESH

(Union Territory)

CAPITAL: Itanagar (since April 20, 1974) — a newly built township was inaugurated by former Pres. V. V. Giri. **Area of Territory:** 83,578 sq. kms. **Population:** 467,511; **Sex Ratio:** 861 females per 1,000 males; **Literacy:** 11·29 per cent.

Districts: With headquarters in brackets and population: Kameng (Bomdila) [illegible]; Subansiri (Ziro) [illegible]; Siang (Along) 121,936; Lohit (Tezu) 62,865; Tirap (Khonsa) 97,470.

Towns and Population: Pasighat: 5,116: Along: [illegible]; Tezu: 4,182; Bomdila: 3,172.

No. of Villages: 2,973.

Boundaries: The Territory is bound by Bhutan in the west, Tibet in the north-west, China in the north and north-east, Assam in the east and south, Burma in the east and south-east and Nagaland in the south-west.

Languages: Tribal dialects.

AGRICULTURE [illegible] increase in food grains: 20,000 tonnes; [illegible] 959; govt. fish farms: 217; people's fish farms: 14 and village fish ponds: 1,858.

Forests: Area under forest is estimated at 60,000 sq. kms. whilst 45,116 sq. kms. had been brought under [illegible]

Wild Life: The Territory has rich fauna and [illegible] are wild elephants, bisons, buffaloes, tigers, [illegible] various kinds of deers, bears, pigs, snakes, [illegible] Peculiar to the Territory are the following [illegible] deer, lesser panda, clouded leopard and [illegible]

INDUSTRIES: There are no major [illegible] Territory. Three medium and 33 [illegible] are functioning under private co-oper[illegible]

Training and incentives are offered by the [illegible] interested entrepreneurs.

Sericulture: Schemes have been [illegible] *Eri* and mulbery silk rearing and intr[illegible] silk. (For details see Chapter on Silk I[illegible]

Training & Production Centres: T[illegible] ing and 24 [illegible] tailoring, knitting, [illegible] Institute at Roing gives training in [illegible]

Labour (1972): Total workers 269,542 [illegible] females: 110,919); cultivators: 211,160 [illegible] females: 105,257); agricultural labourers: [illegible] 2,952; females: 2,340); other workers: [illegible] 49,768; females: 3,322).

EDUCATION: As on Jan. 1, 1978 [illegible] Institutions classified as follows: — [illegible] secondary schools: 8; middle (primary) [illegible] y education centres : 21 ; high schools : 23; middle : 110.

ay on education, according to 1978-79 budget, is ·20 million against an outlay of Rs. 9·15 million previous year.

se enrolment at school stage as on April 1, 1975.

	Boys	Girls	Total
I to V	29,414	9,376	38,790
VI to VIII ..	1,889	579	2,412
X to XI ..	669	113	782
	31,922	10,068	41,990

LIC HEALTH (Jan. 1, 1978) : No. of patients d : 410,949 ; no. of hospitals : 17 ; dispensaries : 94 ; beds : 1,258 ; no. of doctors : 165 ; no. of pharmacists oned : 143 ; present : 121 ; no. of nurses : 143 ; there ne doctor for every 2,894 persons, a nurse for every persons and one hospital/dispensary for every 4,818 s.

MUNICATIONS : (Jan. 1, 1978). Roads : 41 kms. (both surfaced and unsurfaced) ; porter , briddle paths etc. 5,000 kms.

ERAL : The North-Eastern Areas (Reorganisation) 1971 passed by the Parliament on December 21, hanged the status and name of NEFA. It became chal Pradesh with the status of a Union Territory. formally inaugurated on January 20, 1972.

election commission has determined that this Territory would have 30 legislative constituencies o parliamentary constituencies.

Rivers : The Brahmaputra (locally known as the Siang in hill sector and the Dibang when it reaches the plains), the Dibang, the Lohit and the Subansiri.

Rainfall : The monsoon sets in from May-June and continues till the end of September. The average annual rainfall at Bomdila is 1,019 mms, Pasighat—5,792 mms, Tezu—4,071 mms and Changlang—1,988 mms. The snow line starts from about 3,962 metres altitude and the whole of the northern region along the international boundary is under snow during the winter months.

Annual Plan 1978-79 : Approved outlay for the year is Rs. 234·05 million.

Some of the major allocations for 1978-79 Plan are (Rs. million) : agriculture and allied services : 49·8 ; co-operation : 10·0 ; power development : 34·0 ; industry and minerals : 5·1 ; transport and communications : 50·1 ; social and community services : 1·2.

Tribes : About 50 distinct languages and dialects are spoken. Each tribe is divided into a number of exogenous clans. As a general rule, the tribes do not intermarry. A broad list of the main tribes district-wise is given below :

Kameng District :—Monpa, Sherdukpens, Bagni, Aka, Khowa, Miji, Sulung, Bangro.

Subansiri District :—Tagin, Nishi, Apatani, Bangro, Mikir, Hill Miri, Sulung.

Siang District : — Adi, a general name for a number of tribes such as Gallong, Minyong, Padam, Pasi, Bori, Bokar, Pailibo, Romo, Milang etc., Khamba Memba and Hill Miri.

Lohit District :—Padam, Mishi, Singpho, Khampti.

Tirap District :—Nocte, Singpho, Wancho.

ASSAM STATE

PITAL : Dispur. **Population of the Capital :** .A.

a of the State : 78,523 sq. kms. ; **Population :** ,152 ; **Density:** 186 per sq. km. ; **Sex Ratio :** ales per 1,000 males ; **Literacy :** 28·1 per cent 36.7 per cent ; females : 18·91 per cent).

cts	Head-quarters	Area in sq. kms.	Population
p	Gauhati	9,863	2,854,183
ra	Dhubri	10,359	2,225,103
g	Tezpur	8,775	1,736,188
ipur	North Lakhimpur	5,046	711,000
rh	Dibrugarh	7,023	1,411,119
g	Nowgong	5,561	1,680,895
r	Jorhat	8,989	1,837,389
	Silchar	6,962	1,713,318
	Diphu	10,332	379,310
achar	Haflong	4,890	76,047

Cities : (Over 100,000 population) : Gauhati : tion 146,026. *Other cities* with their population : ah 80,348 ; Tinsukia 55,911 ; Nowgong 52,537 ; 52,596 ; Tezpur 39,870 ; Jorhat 70,674.

No. of Villages : Inhabited : 21,995 ; un-inhabited 1,106

State Boundaries : The State is bound by Bhutan and Himalayan ranges in the north, Arunachal Pradesh in the north-east, Nagaland, Manipur and Burma in the east, Bangla Desh, Tripura and Meghalaya in the southl and south-west and West Bengal in the west.

AGRICULTURE

The area under food crops covers 72 per cent of the tota cultivated area. The principal crop is rice while the main cash crops are jute, tea, cotton, oil seeds, sugarcane, potato and fruits. Cultivation of wheat was virtually non-existent a decade ago but wheat production has steadily increased. In the year 1976-77 it was 71,045 tonnes. Total production of food grains during 1976-77 was 21·47 tonnes. An additional 50,000 hectares was brought under HYV (Paddy) during 1975-76. Food grains like wheat and pulses were expected to increase by 10 to 15 per cent as compared to the production in 1975-76.

Farm Projects: To provide greater attention to scientific agriculture in the plains the State Govt. proposes to launch 19 farm projects during 1977–78. The programme includes fertiliser distribution, plant protection development of sugarcane and pulses together with high yielding varieties of wheat and paddy.

Commercial Crops: Tea cultivation in the State covers an area of more than 8 per cent of the total net area sown Most of the tea gardens are in the districts of Dibrugarh. Lakhimpur, Sibsagar, Darrang and Cacha

Land ceiling: 50 bighas (7.5 hectares) per family. Bill on land ceiling was passed in Assam Leg. Assembly in 1975.

Irrigation: The two medium irrigation schemes started during the Third Plan and which spilled over to the Fourth Plan were Jamuna and Sakla Irrigation projects. The Jamuna Project was commissioned in 1969.

Execution of 11 medium projects and one major project has been started. These 12 projects were to be completed by 1979 irrigating 70,000 hectares.

Power: From September 1976, Namrup Thermal Extension with 30 MW capacity has been put in commercial operation. Work on Bongaigaon Thermal Power Station is progressing. The Lakwa Gas Turbine Station (45 MW) was expected to be commissioned in 1978. The Namrup Gas Turbine set 1 × 12·5 MW is in operation.

In addition, installation of a second 1 × 30 MW set at Chandrapur and extension of Bongaigaon Thermal Power Station (3 × 60 MW) were expected to be installed by 1977-78.

As regards rural electrification the Board has so far electrified 1,810 villages out of 21,995 inhabited villages and envisages electrification of 2,567 villages by the end of 1978.

Forestry: Assam has about 1·62 million hectares of reserved forests and 1·229 million hectares of unclassified State forests which together constitute about 35 per cent of the total geographical area as against 20·5 per cent in the country as a whole. Mikir Hill and the North Cachar Hills account for 37·3 per cent of the area under forest. About 88,000 hectares have been utilised for wild life sanctuaries.

The important timbers are: Sal, Nahar, Sam, Gomari, Khair, Sissu, Tita Champa, Azar, Teak, Sanaru etc.

The forest department has proposed to expand economic plantations and rehabilitate degraded forests to raise the forest area creating revenue and employment.

Fisheries: The main sources of fish production are the rivers and their tributaries.

Minerals: Assam is rich in mineral wealth like coal, limestone, refractory clay, dolomite, corundum and natural gas.

INDUSTRIES

The tea industry plays a vital role in the economy of Assam. There are nearly 750 tea plantations in the State.

The State has two oil refineries and the third with a petro-chemical complex is coming up. There is also a public sector fertilizer factory at Namrup. Other industries of Assam are sugar, jute, silk, paper, plywood manufacture, petro-chemicals and rice and oil milling. The important cottage industries are handloom, sericulture, manufacture of cane and bamboo articles, carpentry, smithy and manufacture of brass utensils.

Cement Plant: The Cement Research Institute in collaboration with the State Govt. is setting up a cement plant costing Rs. 616·1 million at Garampani in North Cachar district.

Cachar Sugar Mill: The Rs. 54·00 million sugar mill has a crushing capacity of 1,250 tonnes of sugarcane per day. It provides direct employment to 600 persons. 20,000 sugarcane growers are benefited by it.

Three Industrial Projects:— A *jute factory* at Barpeta by Assam Industrial Development Corporation, a *bus body building factory* and a *river-vessel building unit* at Gauhati by State Transport Corporation and Inland Wa[illegible] Transport Department respectively are being set [illegible]

Handlooms: The Centre had sanctioned Rs. [illegible] million to the State in 1976-77 under the intensive development project and export production project. The intensive development project is to cover 10,000 looms and export production project to cover 1,000 looms respectively.

An export oriented handloom scheme costing Rs. [illegible] million to help 500 weavers of Sualkuchi in K[illegible] district is being set up.

INDUSTRIAL DEVELOPMENT AGENCIES

Assam Industrial Development Corporation, G[illegible]; Small Industries Service Institute (Government of In[illegible]), Gauhati; Credit Guarantee Association, Gauhati; Assam Agro-industries Development Corporation, Gauhati; The Assam State Warehousing Corporation, Shillong.

Labour (1973): Number of disputes: 13; number [illegible] workers involved: 7,909; man-days lost: 60,590.

Employment Exchange: The distribution of no. of applicants in respect of occupations available on the live register for the year 1972 is as follows:

Professional, technical and related workers: 2,15[illegible]; administration, executive and managerial workers: [illegible]; clerical and related workers: 959; salesmen: 43; farmers, fishermen, hunters and related workers: 14,769; miners, quarry-men and related workers: 10; workers in transport and communication: 1,964; craftsmen, production [illegible] process works and labour not elsewhere classified: 10,54[illegible]; service, sports and related workers: 3,583; workers not classified by occupations: 64,521.

EDUCATION

According to 1971 census, the literacy was 28·72 per cent — male 37·19 per cent, female 19·27 per cent.

In 1947-48 the State had 7,574 primary schools, 7[illegible] middle schools, 191 high schools and 7 colleges. By the end of 1976 it had: L. P. schools — 26,000; M. E. schools — 2,504; high schools — 1,657; higher secondary schools — 70; colleges — 133; universities — 3; medical colleges — [illegible]; agriculture college—1; veterinary college—1; ayurvedic college — 1. Number of students: 2·6 million and number of teachers: 87,000 in 1976-77.

Universities: *Assam Agricultural University*, J[illegible] 785004; *Gauhati University*, Jalukbari, Gauhati 781014; *Dibrugarh University*, Dibrugarh.

PUBLIC HEALTH (1971-72)

Hospitals (Govt.): 63; beds: 5,382; doctors: [illegible] nurses: 1,754; dispensaries: 422; primary health centres [illegible] 109; patients treated in hospitals and dispensaries [illegible] indoor patients: 1,747; outdoor patients: 55,916; [illegible] of medical colleges: 3.

The Centre has allocated Rs. 16·9 million for [illegible] malaria programme during 1977-78. There were [illegible] malaria cases and 99 deaths in the State [illegible] 1977, 85,000 cases and 30 deaths were [illegible] The Centre also has provided an [illegible] district. The incidence of cancer is reported to [illegible] Research is being conducted to find the cause.

COMMUNICATIONS

Vehicles of different types (1971): buses: 2,466; [illegible] cars: 13,980; motor cycles: 4,903; taxi [illegible] private carriers: 6,263; public carriers: 5,554 [illegible] 2,921; tractors: 3,081; government vehicles [illegible] auto-rickshaws: 164; others: 426; total: 43,[illegible]

ads : Though at present rather poorly connected by ads, the State should have a road kilometrage of 31,428 1981 under its 20 Year Road Plan. The present position P.W.D. roads (1971-72) : black topped : 3,852 kms. ; talled : 17 kms. ; gravelled : 11,272 kms. ; others : 69 kms. ; total : 17,893 kms.

ilways : The length of railways was 2,108 kms. in 71-72.

land Waterways : The length of internal waterways more than 9,600 kms. of which 1,600 kms. is navigable steamers and large country boats.

ess

Leading Dailies	Town	Language	Circulation
e Assam Tribune	Gauhati	English	27,129
sam Express	—do—	—do—	N.A.
jnik Assam	—do—	Assamese	23,759

irports : The important airports are Borjhar (Gauhati), hanbari (Dibrugarh), Salonibari (Tezpur), Rouriah orhat) and Kumbirgram (Silchar).

ENERAL

ainfall : The normal rainfall in the plains is 2,380 ms. and that of the hills is 2,550 mms.

Rivers : The Brahmaputra and her tributaries : the Subansiri, the Bhareli, the Dhansiri, and the Manas.

Flood Protection : About Rs. 260 million had been spent on protection works until the beginning of Fourth Plan. The Brahmaputra Flood Control Commission has calculated that short-term measures spread over 5-6 years will cost Rs. 1,000 million and long-term measures such as building dams on the Dihang and Subansiri Rs. 400 million At present Rs. 40-Rs. 50 million are being spent every year.

Dairy Scheme: The Indian Dairy Corpn. has earmarked Rs. 25 million for milk scheme projects viz. " The Operation Flood II. "

Housing: The State Housing Board proposes to build 250 houses in the tribal areas and more than 4,000 houses for plantation workers during 1977-78.

Annual Plan (1978-79): Outlay for 1978-79 has been tentatively fixed at Rs. 1,550 million. Sector-wise allocations (Rs. Million) are as follows :—Agriculture and allied services : 337·5 ; irrigation and flood control 140·0 ; power development: 634·7; industries and minerals 53·4; transport and communications : 140·0 ; social and community services : 235·0.

High Court : The Gauhati High Court serves Meghalaya, Assam, Manipur, Nagaland and Tripura.

Science Museum : The Assam Science Society is planning to set up a Science and Technology museum in Gauhati. Another project the society has taken up is the Institute of Advanced Study in Science and Technology.

BIHAR STATE

APITAL : Patna. **Area :** 71·69 sq. kms. **Population :** 475,300.

rea of the State : 173,876 sq. kms. **Population the State :** 56,353,369 (1971). **Density :** 324 per sq. ns. **Sex Ratio:** 954 females per 1,000 males. **Literacy** 971) : 19.9 per cent (males : 30.69, females : 8.7).

o. of Districts : 31 ; **No. of Sub-divisions :** 76 ; **No· Towns :** 202 ; **No. of Development Blocks :** 587 ; **o. of Villages :** 77,967.

dministrative Divisions with Headquarters resctively are: 1. Patna (Patna) ; 2. Tirhut (Muzaffarpur) ; Darbhanga (Darbhanga) ; 4. Kosi (Saharsa) ; 5. Bhagalr (Bhagalpur) ; 6. North Chotanagpur (Hazaribagh) ; d 7. South Chotanagpur (Ranchi).

ajor Cities (over 100,000 population—1971)

me	Area sq. kms.	Population
agalpur	30·17	172,202
ar Sharif	19·34	100,046
bhanga	19·18	132,059
ya	28·62	179,884
nshedpur	63·81	341,576
nghyr	17·50	102,474
zaffarpur	18·57	126,379
na	71·69	475,300
nchi	48·61	175,934

State Boundaries : The State is bound by Mirzapur, Ghazipur, Ballia and Deoria districts of Uttar Pradesh in the north-west ; Nepal in the north ; Jalpaiguri, Malda, Birbhum and Purulia districts of West Bengal in the east ; Mayurbhanj and Sundargarh districts of Orissa in the south and Surguja district of Madhya Pradesh in the south-west.

State Language : Hindi. Other prominent languages spoken in the State are Urdu and Bengali.

AGRICULTURE

The main crops of the State are rice, wheat, barley, maize, jute, potato and sugarcane. Rice and wheat occupy an area of 7·25 million hectares out of the total net sown area of 11·28 million hectares in 1975-76.

(See chapter on ' Food & Agriculture ' for details.)

Ceiling on Land : A ceiling of 6·0705 hectares to 18·211 hectares for a family of five and an additional allowance of one tenth to each additional member subject to a maximum of one and a half of the ceiling limit to each additional member. The Bihar Government acquired 92,843 hectares of surplus land and distributed over 51,006 hectares among 134,298 landless till Dec. 1977.

Livestock (1972 census) : cattle : 14,911,112 ; buffaloes : 3,678,647 ; sheep : 982,878 ; goats : 7,363,977 ; horses and ponies: 98,858; donkeys: 30,717; mules: 483; camels: 191 ; pigs: 878,965; poultry: 12,560,070.

Fisheries : (See chapter on " Fisheries ".)

Irrigation and Power Projects : (See chapter on "Irrigation and Power".)

Districts	Head-quarters	Area in '000 sq. Kms.	Population (million)
Aurangabad	Aurangabad	3·3	1·016
Begusarai	Begusarai	1·9	1·147
Bhagalpur	Bhagalpur	5·7	2·091
Bhojpur	Arrah	4·0	1·995
Darbhanga	Darbhanga	2·3	1·517
Dhanbad	Dhanbad	3·0	1·466
East Champaran	Motihari	4·3	1·956
West Champaran	Bettiah	4·9	1·587
Gaya	Gaya	6·5	2·547
Giridih	Giridih	6·9	1·374
Gopalganj	Gopalganj	2·0	1·107
Hazaribagh	Hazaribagh	11·1	1·645
Katihar	Katihar	4·0	1·136
Madhubani	Madhubani	3·5	1·892
Monghyr	Monghyr	7·9	2·745
Muzaffarpur	Muzaffarpur	3·2	1·909
Nalanda	Biharsharif	2·3	1·306
Nawadah	Nawadah	2·5	1·110
Palamau	Daltonganj	12·7	1·504
Patna	Patna	3·2	2·250
Purnea	Purnea	7·0	2·804
Ranchi	Ranchi	18·3	2·611
Rohtas	Sasaram	7·2	1·943
Saharsa	Saharsa	5·9	2·350
Samastipur	Samastipur	2·9	1·824
Santal Parganas	Dumka	14·1	3·186
Saran	Chapra	2·7	1·709
Singhbhum	Chaibasa	13·4	2·437
Sitamarhi	Sitamarhi	2·6	1·582
Siwan	Siwan	2·2	1·462
Vaishali	Hajipur	2·0	1·348

Source: Director of Census Operations, Bihar, Census of India, 1971.

INDUSTRIES (with no. of units)

Steel plants 3, cement plants 7, oil refinery 1, copper smelter 1, lead smelter 1, carbonisation plant 1, paper factories 2, uranium and copper complex 1, pottery 1, glass works 5, ceramic works 4, asbestos plant 1, coal washeries 11, locomotive factory 1, tobacco factory 1, jute mills 3, sugar mills 29, cold storages 140, fertiliser plants 2, modern bakery 1, explosive plant 1, electric equipment 1, agro-industry (tractor) 1, scooter factory 2, refractories 45, gun factory 1 and gun manufacturing units in the private sector : 36.

INDUSTRIAL DEVELOPMENT AGENCIES

(See chapter on State Govt. Undertakings).

LABOUR

Employment in Factories (1976) : No. of registered factories : 27,290 ; no. of working factories : 25,816 ; no. of workers : 346,306; no. of workers employed daily : men 336,777 ; women : 15,360 ; adolescents : 1,300 ; children : 400.

Employment in Government : Central Government establishments : 194,600 ; State Government establishments : 425,845 ; quasi-government establishments : 493,000 ; local bodies : 172,000.

Employment Exchanges : (1976) : 37 ; registrations : 1,135,335 ; no. of applicants on live register of employment exchanges : 1,353,311.

No. of Industrial Disputes : (1975) 204 ; workers involved: 120,380; man-days lost: 528,944.

EDUCATION

The State Government provides free educa[illegible] all children upto matriculation standard. T[illegible] 51,244 primary schools with 4,191,764 pupils and [illegible] teachers. The number of pupils in the middle scho[illegible] the age-group of 11-14, is 2,274,060. The number [illegible] school attending pupils is 970,161 and teachers [illegible] There are about 1,200 specialised schools and 49 eng[illegible] institutions having 14,222 students and 1,518 [illegible]

Universities : Bhagalpur University, Bhagalpur ; B[illegible] University, Muzaffarpur ; Kameshwar Singh [illegible] University, Darbhanga ; Magadh University, [illegible] Patna University, Patna 800005 ; Ranchi U[illegible] Ranchi 834001 ; Mithila University, Darbhanga [illegible] and Rajendra Agricultural University, [illegible] Dist. Samastipur. There are 264 science and arts [illegible] other colleges. The total number of teachers and [illegible] is 10,940 and 244,244 respectively.

(See chapter on " Education " for more particulars.)

PUBLIC HEALTH (Government institutions.)

No. of hospitals 140 ; dispensaries 670 ; no. of [illegible] 16,434 ; no. of doctors in govt. service 3,615 ; no. of [illegible] 3,115 ; no. of auxiliary midwives 2,200 ; no. of lady [illegible] visitors 587 ; no. of sanitary inspectors 610 ; no. of [illegible] cists and compounders 710 ; no. of non-allopathic [illegible] practitioners : 54,384 (homoeopathic 28,090 ; [illegible] 23,668 ; hakims 2,626) ; no of medical colleges : 10 [illegible] 8, private : 2). Annual intake of the medical colleges : [illegible]

There are three Employees State Insurance [illegible] and 27 dispensaries in the State.

There is a leprosarium at Brambay near Ranchi with provision of 150 beds and a leprosy hospital at [illegible] in Dhanbad dist. Two leper asylums one at Gaya [illegible] the other at Deoghar with bed capacity of 150 and [illegible] respectively, and a subsidy centre at Monghyr with [illegible] beds are also functioning. Santal Pahariya Seva [illegible] manages and controls one leprosy centre at [illegible] Santal Parganas district and 13 other clinics.

COMMUNICATIONS

Motor vehicles (1975-76) : motor cycles and [illegible] 42,274 ; auto rickshaws and tempo : 1,689 ; jeeps [illegible] 32,062 ; taxicabs : 4,211 ; buses : 4,390 ; trucks : [illegible] tractors : 8,434 ; trailors : 4,912 ; other vehicles : [illegible] total : 115,360.

Roads (surfaced) : 17,644 kms.

Electricity (1976-77) : Installed capacity 590·50 [illegible] electricity generated : 2,488 million Kwh ; [illegible] electrified : 17,311 ; no. of towns electrified : 202 [illegible] tubewells energised : 3,430 ; private tubewells [illegible] industrial connections : 38,800 ; no. of distrib[illegible] stations : 16,761.

Per Capita Income : At current prices Rs. 604.

PRESS (1976)

Leading dailies	Town	Language	[illegible]
Indian Nation ..	Patna	English	[illegible]
Aryavarta ..	—do.—	Hindi	[illegible]
Searchlight ..	—do.—	English	[illegible]
Pradeep ..	—do.—	Hindi	[illegible]

GENERAL

Minerals : Bihar has the largest mineral [illegible] mineral [illegible] in India. [illegible] of copper ore (98 per cent), kyanite (86 per [illegible] apatite (90 per cent) in the country is from Chota Nagpur region. It accounts for 50 per cent of the bauxite, 34·5 per cent of fire-clay, 50 per cent of coal, 32·6 per cent of China clay (crude) and 16·0 per cent of iron in India.

There are 21 coalfields and the best metallurgical coal comes from Jharia coalfield with reserves of 3,017 million tonnes. All coalfields were nationalised by the Government of India in 1972.

A 153 metre thick coal seam, said to be the thickest coal seam in the world, has been discovered in Jhinguda Colliery of the Central Coal Fields Ltd.

The mica belt which has a large supply of high quality block mica is 145 kms. long and 25 kms. wide running from Nawadah in the west to Bhagalpur district in the east through Giridih, Hazaribagh and Monghyr districts.

The sole producer of copper is Singhbhum district. This belt extends for about 130 kms. from Duarpuram in the west to Bahragora in the east.

Bauxite and aluminium are located in Ranchi and Palamau districts. Apatite and kyanite are located in Singhbhum. Limestone deposits are found in Rohtas, Hazaribagh, Palamau, Ranchi and Singhbhum districts. Pyrite deposits are located in Anjhore in Rohtas district.

Chota-Nagpur also contains rich deposits of atomic minerals such as chromite, manganese, asbestos, barytes, dolomite, feldspar, quartz, graphite, ochre, uranium, phosphorites, soap stones etc.

Places of Interest: Remains of the Royal City of Pataliputra (Patna), the ancient International University of Nalanda (Nalanda), the Ashoka pillars at Vaishali, Areraj Lauriyanandangarh, the birth place of Lord Mahavira (Vaishali), the ancient temples at Bodhgaya (Lord Buddha temple), Deoghar (Lord Shiva), Parasnath and the Sikh Gurudwara in Patna city and the cyclopean walls of Rajgir.

Annual Plan: The outlay for the Annual Plan for 1978. 79 will be Rs. 3,840 million distributed as follows (Rs million): Agriculture and allied services — 502·0; co-operation—42·5; water and power development—2,260·0; industry and minerals—143·7; transport and communications — 301·75: social and community services — 544·3; economic services — 4·4; and central services — 42·6.

Important Rivers: The Ganga, the Gandak, the Kosi, the Kamla, the Sone, the Barakar, the Damodar, the Koel, the Baghmati and the Subarnarekha.

Wild Life: There are 85 tigers and over 200 bisons as also partridges, nakta, spotted bull, pin-headed ducks, swamp partridges, ortolans etc.

There are two national parks one in Hazaribagh and another in Palamau districts and 16 game sanctuaries.

CHANDIGARH

(Union Territory)

AREA: 114·00 sq. kms. **Population:** 257,251. **Density:** 2,257 per sq. kms. **Sex Ratio:** 749 females per 1,000 males. **Literacy:** 61·56 per cent.

Area of Chandigarh City: 41·67 sq. kms. **Population of Chandigarh City:** 218,743. **Sex Ratio:** 752 females to 1,000 males.

Early in 1948 it was decided to build a new capital for the Punjab at a site about 388 kms. north of Delhi. This afforded an ideal opportunity to town planners and architects. A team of experts planned the city under the overall guidance and direction of Charles Edouard Jeannert, the French architect popularly known as 'le Corbousier' (meaning 'A man with a crow's eye').

The city was inaugurated as the capital of the Punjab by President Dr. Rajendra Prasad on October 7, 1953.

FORMATION

On November 1, 1966 the Punjab was divided into three units, Punjab, Haryana and Chandigarh. Punjab and Haryana are separate States, while Chandigarh remains a Union Territory. Following is the text of the official announcement of the Central Cabinet on June 9, 1966: "Chandigarh Capital Project, which does not form part of either of the two regions (Punjab and Haryana) shall be constituted into a Union Territory. The Central Government will also acquire powers to give directions to the Governments of the two States to regulate land use in the surrounding areas declared as "controlled areas". Chandigarh will continue to be the capital of both the States of Punjab and Haryana". On November 1, 1966 the Union Territory of Chandigarh came into being in accordance with the Constitution (18th Amendment) Act providing for the linguistic re-organisation of the Punjab.

Subsequent to this the Central Cabinet announced a decision on January 29, 1970 providing for the transfer of the capital project area of Chandigarh to the Punjab within the next five years. Pending the construction of a new capital by Haryana, Chandigarh will remain a Union Territory.

Administration: Union Territory of Chandigarh is administered by a Chief Commissioner who is vested with powers of the State Government in respect of laws in force in the Territory and with financial powers analogous to those exercised by the other administrators of Union Territories. It has one member in the Lok Sabha.

EDUCATION

During 1976 there were 45 primary, 17 middle and 41 high/higher secondary schools. The enrolment for the year 1976 was as follows: primary stage 10,257, middle stage 7,897, secondary stage 37,442.

GENERAL

Annual Plan (1978-79): Annual Plan outlay for Chandigarh is Rs. 121·16 million of which Rs. 25·58 million has been allocated for housing the poor, the police and other Govt. employees, loans to plot holders under Low Income Group and Middle Income Group Housing Schemes and financial assistance to the Chandigarh Housing Board, Rs. 0·44 million for animal husbandry and dairying and Rs. 3·00 million for village and small-scale industries and Rs. 6·15 million for the general development of villages.

Govt. Undertakings: Modern Bakeries' new unit has been set up in the territory. The project machinery is gifted by Australian Govt. under the Colombo Plan. The unit started production on Dec. 10, 1975.

DADRA AND NAGAR HAVELI

(Union Territory)

HEADQUARTERS : Silvassa. **Area of the Territory :** 491 sq. kms. **Population of the Territory (1971):** 74,170 (36,964 males, 37,206 females.). **Sex Ratio :** 1,007 females per 1,000 males. **Density :** 151 per sq. km. **Literacy :** 14·97 per cent.

Districts : Dadra and Nagar Haveli. **Major Cities :** None. **No. of villages :** 72.

The Territory was liberated from Portuguese regime on Aug. 2, 1954. It comprises of two pockets, viz. Dadra with three villages and Nagar Haveli consisting of 69 villages.

State Boundaries : This Territory is surrounded in the east and north by talukas of Valsad district (Gujarat State) and Thane district (Maharashtra State) in the south and west.

State Language : As per 1971 Population Census, 83 per cent of the population speak Bhilli/Bhilodi language, 12 per cent speak Gujarati, 2·29 per cent speak Marathi, and 1·58 per cent speak Hindi.

AGRICULTURE : Agriculture is the principal occupation of adivasis who represent about 88 per cent of the total population. Paddy and ragi are two major food crops, while wheat is also grown in some areas. About 23,247 hect. of land are under cultivation.

Agriculture depends almost entirely on rainfall. Average rainfall for the year 1977 is 2,426 mm. About 713 hect. of area was irrigated during 1977.

Soil Conservation : The main work of soil conservation is bench terracing. Under the scheme 75 per cent subsidy on the actual expenditure was given to the adivasis. During the year 1976-77 soil conservation work was carried out in 442 hectares while in 1977-78 about 300 hectares of land was brought under soil conservation measures.

Forests : The total forest area is 20,317·49 hectares i.e. about 41·5 per cent of the total area. These forests fall under southern tropical moist deciduous forests, and contain valuable trees of teak, sadaq, khair, shivan and mahuda. Annual production of timber was 3,166 cubic metres which consisted of 1,151 cubic metres teak.

It is proposed to raise plantation of teak, khair and sadad over 550 hectares during 1978-79. Forest based industries include one *katha* factory and 4 saw mills. Forest Department fetches approximately 25 per cent of the total revenue.

Animal Husbandry, Poultry and Dairying : There is one veterinary hospital at Silvassa and 2 veterinary aid-centre at Dapada and Khanvel where treatment is provided free of cost. During 1977-78 268 animals were castrated, about 19,600 heads of cattle were innoculated against various diseases and 182 cows were inseminated.

The administration's Bull Rearing Farm distributes breeding bulls and calves. Under the scheme of distribution of buffaloes and cows, subsidy to the extent of 50 per cent of the cost of milch animals is given to the adivasis and female calves are distributed at subsidised rates.

The milk yield of the dairy farm is 52,500 litres. There is also one piggery farm and one food compounding plant run by the Administration.

The poultry farm at Silvassa provides sufficient number of genetically superior stock of birds to the people.

There are in all 48 large and small village poultry units.

Irrigation : There is no major or minor irrigation project in the Territory. However Damanganga reservoir project at an estimated cost of Rs. 323·0 million, is a joint venture of Govts. of Gujarat, Goa, Daman and Diu and this Administration. When the project is completed about [illegible] hectares of land will be irrigated.

The minor irrigation activities include construction of 13 lift irrigation schemes, 5 check-dams, 2 tube-wells and 1 open well.

Power : There is no generation of electricity in the Territory. However, power is purchased from Gujarat State Electricity Board through their Vapi Sub-Station on a single circuit 11 KV line.

44 villages out of 72 have been electrified. Power connection was given to 16 industrial units during 1977-78 which raised industrial connections to 120. So far 175 agriculture pump-sets and 29 pump-sets for drinking water have been energised.

INDUSTRIES : Although there is no major industry in this territory, a small industrial estate on co-operative basis is located at village Piparia near Silvassa. There are 64 industrial units of which 49 are in the industrial estate. Most of them are small scale industries, and employ 1,380 persons. The products manufactured include automobile parts, spectacle frames, cotton and art silk fabrics, nylon filament, foam products, detergent powder, soap, biscuits, chemical, engineering goods, candles, fruit juice, wrist watches etc.

The entire territory is under rural industrial project, and as such concessional facilities to small scale industries are available.

CO-OPERATION : There are 33 co-operative Societies with 8,641 members. Agricultural credit is routed through the 11 service co-operative societies and short term and medium term loans are advanced to agriculturists.

EDUCATION : There are 144 Govt. primary schools and 12 Govt. aided mission primary schools. There is also one un-aided mission primary school. The total strength of the primary schools is 11,357 (7,527 boys and 3,830 girls). The Administration is also running 11 pre-primary schools where 523 children are enrolled.

There are 4 high schools one each at Silvassa, Khanvel, Naroli and Dadra. The only Higher Secondary School is at Silvassa. The total strength of the High Schools and Higher Secondary Schools is 896 (590 boys and 306 girls).

There is no college imparting higher education. The Administration provides free education upto higher secondary stage and free mid-day meals are provided at pre-primary and primary schools. Students upto higher secondary stage belonging to scheduled castes and tribes and economically backward classes are provided with clothes, text-books and other stationery items.

There are 7 hostels for boys and 2 for girls where students belonging to economically backward classes are provided with free lodging and boarding facilities. There are 4 public libraries one each at Silvassa, [illegible], Naroli and Khanvel.

The Industrial Training Institute at Silvassa [illegible] Wiremen, Welders, Fitters and Electricians. Total strength of I.T.I. is 81.

PUBLIC HEALTH : One cottage hospital, with a capacity of 25 beds in General Ward and a 4-bed ward for infectious diseases, exists at Silvassa.

There are 2 primary health centres with 5 subcentres and 4 dispensaries. One mobile dispensary gives medical facilities to the poor of the interior villages of this territory.

FAMILY WELFARE PROGRAMME : The Family Welfare activities are conducted at the cottage hospital and primary health centres on voluntary basis.

COMMUNICATION : There is no state highway passing through this territory. The length of surface roads, at the end of 1977, was 167 kms. and unsurfaced village roads 27 kms.

DELHI

(Union Territory)

AREA : 1,485 sq. kms. ; **Population** (1971 Census) : 4,065,698 ; **Density:** 2,738 per sq. km. ; **Sex Ratio :** 801 females per 1,000 males; **Literacy :** 56·61 per cent.

Administration : Delhi is a Union Territory. It has an elected Metropolitan Council consisting of 61 members including 5 nominated by the President of India.

The Lt. Governor is the Administrator who is assisted by 4 Executive Councillors (one Chief Executive Councillor and three Executive Councillors) appointed by the President of India on the recommendation of the Union Home Ministry.

The presiding officer of the Metropolitan Council is called Chairman.

The entire Territory is covered by three Local Bodies *viz.* Delhi Municipal Corporation, New Delhi Municipal Committee and Delhi Cantonment Board.

Boundaries : Delhi is surrounded by Uttar Pradesh in the east, and by Haryana in the south, west and the north.

AGRICULTURE : The Delhi Landholders (Ceiling) Bill passed in August, 1960, fixed the ceiling on land holdings at 12·15 hectares for a family of five. Leases in future have been prohibited except by small owners holding less than 3·24 hectares and persons suffering from a disability. Future tenants will have a minimum term of five years.

(See chapter on 'Food & Agriculture' for details.)

INDUSTRIES (1977) : There are about 41,000 industrial nits functioning in Delhi. These units produce goods vorth Rs. 4,520 million, provide employment to 313,000 ersons and have an investment of Rs. 3,270 million.

The main industries of Delhi are electronics, electrical ppliances and accessories, lathe machines and drilling achines, small tools, cycle and cycle parts, paints and arnishes, rubber goods, plastic goods, auto parts and atteries, precision instruments, cotton mills, hand and owerloom weaving, imitation jewellery, copper and rass utensils, sports goods, pottery and hosiery.

abour : No. of workers unions in Delhi (1977) — 830.

Figures in 1976 indicated that there were 57 industrial sputes which involved 14,962 workers resulting in the ss of 83,821 man-days. In 1975, average daily employent in all working factories which numbered 2,770 as 126,000. *N.B.* All figures are provisional.

The number of registrations on the live register of the egional Employment Exchange, at the end of 1977, was 5,383.

UCATION : The number of higher secondary titutions during the year 1976-77 was 604.

The number of institutions, primary, middle and higher ndary was 2,576 during 1976-77 and the total enrolt was 1,080,000 in the year.

Number of arts and science colleges in Delhi stood at during the year 1976–77. There were 16 colleges of ineering and technology during 1976–77.

versities : *University of Delhi, Old Viceregal Lodge, hi* 110007 — is a teaching and affiliating university. e medium of instruction is English and the number of dents in 1973–74 was 124,000.

Jawaharlal Nehru University, New Mehrauli Rd., New Delhi 110 057 — has jurisdiction over the whole of India. It is a teaching and a research university.

(For further details about the universities, see chapter on Education.)

PUBLIC HEALTH (1976)

There are 59 hospitals, 96 clinics, 340 dispensaries and 8 primary health centres. The total bed strength is 12,500. Birth rate, death rate and infant mortality during 1976 were 24·7, 7·4 and 55·2 respectively (per thousand).

COMMUNICATION : During the year 1977, the number of vehicles plying on the roads of Delhi was :

Motor cycles : 259,459 ; auto rikshaws : 16,986 ; private motor cars : 99,736 ; taxis : 5,138 ; commercial vehicles (goods) : 29,094 ; other public service vehicles : 6,471.

The Delhi Transport Corporation had 2,182 buses and 48 private buses under D.T.C. operation, as on Dec., 1977.

PRESS : The major dailies in Delhi with their circulation in brackets are as follows :

English : Hindustan Times (174,640) ; Hindustan Times Evening News (N.A.) ; Indian Express (89,710) ; Morning Echo (N.A.) ; National Herald (42,797), Lucknow & New Delhi ; Patriot (N.A.) ; Statesman (183,858, Calcutta & New Delhi) ; Times of India (94,695).

Hindi : Hindustan (146,401) ; Nav Bharat Times (219,519) ; Vir Arjun (21,966).

Urdu : Milap (25,235) ; Pratap (27,008).

Urban Development : *Delhi Development Authority, Delhi Vikas Bhawan, Indraprastha Estate, New Delhi* 110001 : is responsible for planning and implementing the 20-year Delhi Master Plan. Under the large scale acquisition, development and disposal of land scheme, over 8,000 hectares have been developed by the DDA for setting up new residential, industrial, commercial and institutional enclaves. Over 30,000 houses, flats have been constructed and 18,000 more are sanctioned for construction in 1974-75. Under the Jhuggi/Jhonpri Removal Schemes, about 60,000 plots have been provided. Under the Decongestion Programme, several roads have been widened and unauthorised occupation of public land cleared. The cleared areas have been given a face-lift by developing about 60 parks and woodlands in different areas. Three phases of the ambitious River-Front Scheme to improve the western bank of the river Jamuna are completed.

ANNUAL PLAN : The planning commission has recommended an outlay of Rs. 1,080·0 million for the Annual Plan for 1977-78 for the Union territory of Delhi. The Delhi administration had sent proposals for an outlay of Rs. 1,259·7 million.

Priority has been given to power, water supply and sewage disposal, education, roads and housing in Plan allocations.

The Annual Plan outlay envisages Rs. 242·5 million for power, Rs. 152·5 million for water supply and drainage, Rs. 135·3 million for education, Rs. 903·37 million for roads and Rs. 109·3 for housing.

GOA, DAMAN AND DIU

(Union Territory)

CAPITAL : Panaji ; **Urban Agglomeration Area:** 37·00 sq. kms.; **Population :** 59,258 (1971 Census).

Area of Territory : 3,813 sq. kms.

Population of Territory : 857,771.

Districts: Goa, Daman and Diu with Panaji as headquarters. Goa: area 3,701 sq. kms.; population 795,120 ; Daman: area 72 sq. kms.; population 38,730 ; Diu: area 40 sq. kms.; population 23,912.

Important Towns: with their population : Panaji urban agglomeration 59,258 ; Margao urban agglomeration 48,593 ; Marmugao 44,065 ; Mapusa 20,001.

Other Towns: Ponda, Pernem, Chauri, Quepem, Bicholim, Sanguem, Valpoi, Daman and Diu.

No. of Villages: 429 revenue villages or 409 census villages (excluding 8 uninhabited villages as per 1971 census).

State Boundaries: The entire territory of Goa, Daman and Diu comprises of three districts of different land blocks.

Goa is bound in the north by the Terekhol river which separates it from Maharashtra, in the east and south by Karnataka and in the west by the Arabian Sea.

Daman is bound in the north by the Bhagwan river, in the east by Gujarat State, in the south by the Kalem river and in the west by the Arabian Sea.

Diu, a tiny island in the Gulf of Cambay near Veraval Port, is separated from the southern extremity of the Saurashtra peninsula by a narrow channel running through a swamp.

Language : The predominant language of Goa district is Konkani and Daman & Diu is Gujarati.

AGRICULTURE

Net area sown in Goa, Daman & Diu is 128,429 ; 4,353 and 793 hectares respectively. The food crops commonly grown include paddy, nachini (ragi) and pulses. Vegetables of all types are grown as rainfed crops in Kharif and as irrigated crops in Rabi season. The main commercial fruit crops grown in Goa are coconut, cashewnut, betelnut (arecanut) and mango. The other common fruits available in this territory are pineapple, jackfruit, breadfruit, various types of citrus, papaya, and bananas.

During the year 1976–77, area covered under high yielding variety of paddy was 24,448 hectares and achievement in paddy production was 132,179 tonnes. Wheat and groundnut occupied 34 hectares and 143 hectares respectively. The area under pulse and ragi during 1976-77 was 6,300 hectares and 6,340 hectares respectively.

Under Horticulture Development 84,925 coconut seedlings, 209,885 cashew seedlings, 12,315 mango grafts, 14,082 banana suckers and 12,191 of other fruit stock plants were supplied.

Under Plant Protection an area of 12,552 hectares was covered and 725 tonnes of paddy seeds treated during 1976-77.

Under Farmers Training Programme 22 short courses for 692 farmers, 2 courses of convenors with 16 participants and 107 training-cum-demonstration camps for 6,277 farmers were held.

Poultry Production

(Eggs — by Government Poultry Farm)

1975-76	766,667
1976-77	722,564

Dairy Production (Government Scheme)

	Milk production	Butter	Ghee
1975-76	1,467,295 litres	2,824 kgs.	855 kgs.
1976-77	1,857,408 litres	2,494 kgs.	1,140 kgs.

Fisheries : During 1976 the estimated marine fish landing amounted to 44,592 tonnes worth Rs. 75·0 million.

The Territory has a coastline of about 140 kms. (divided into 3 separate units : Goa 104 kms., Daman 13 kms. and Diu 22 kms.) and small fresh water ponds numbering about 126. The coast is full of creeks and estuaries which provide a good shelter for fishing crafts.

Forest : The total forest area of the territory is 1,053,000 hectares. The per capita forest area comes to 0·15 hectare.

Electricity : Power for distribution in the Territory is obtained from Karnataka and Maharashtra to Goa and from Gujarat to Daman and Diu. The aggregate maximum power demand during 1976-77 was 44·79 M.W. and the units sold were 159·83 million kwh.

In all 13 towns and 340 villages have been electrified as on 31st March, 1977.

INDUSTRIES

There are 21 projects in large and medium scale sector with capital investment of approximately Rs. 880·0 million, providing employment to over 4,000 persons. All the large and medium scale industries are in rural areas.

LARGE AND MEDIUM INDUSTRIES

Name of the undertaking and address respectively are : 1. Chowgule & Co. Pvt. Ltd., "Chowgule House", Mormugao Harbour 403 803 ; 2. Chowgule & Co. Pvt. Ltd., Textile Division, "Chowgule House", Mormugao Harbour 403 803 ; 3. Arlem Breweries, "Chowgule House", Mormugao Harbour 403 803 ; 4. McDowell & Co., McDowell House, 2nd Line Beach, Madras [illegible] ; 5. Ciba Geigy of India Ltd., Royal Insurance Bldg., 14, J. Tata Rd., Bombay 400 020 ; 6. Zuari Agro Chemicals Ltd., Industrial House, 159, Churchgate Reclamation, Bombay 400 001 ; 7. Madras Rubber Factory Ltd., [illegible] Bldg., 175/1, Anna Salai, Madras 600 002 ; 8. [illegible] Sahakari Karkhana Ltd., Dayanandnagar, [illegible] Goa ; 9. Mandovi Shipyard Pvt. Ltd., Kadar Manzil, Margao, Goa 403 601 ; 10. Govind [illegible] Ltd., Govind Poy House, Rua de Padre [illegible], Margao 403 601 ; 11. Timblo Industries, P. B. No. 34, Margao 403 601 ; 12. Goa Agro-Chemicals Pvt. Ltd., P.B. No. [illegible], Kadar Manzil, Margao 403 601 ; 13. Chemitex, Rua [illegible] Crains, P.B. No. 181, Panaji 403 001 ; 14. Goa [illegible]ling Mills and Allied Industries, Bicholim 403 [illegible] ; 15. Kesarval Breweries Ltd., Bethora, [illegible] Goa [illegible] ; 16. Chowgule & Co. Pvt. Ltd., Chowgule House, Mormugao Harbour 403 803 ; 17. Chowgule [illegible] Pvt. Ltd., Chowgule House, Marmugao Harbour 403 803 ; [illegible] algaoncar Bros. Pvt. Ltd., Salgaoncar Bldg., Vasco-da-ama 403 803 ; 19. Timblo Industries, Margao 403 601 ; 20. algaoncar Industrial Gases Pvt. Ltd., Salgaoncar Bldg., asco-da-Gama 403 802 ; 21. Curtis Chemicals Ltd., Sal-aoncar Bldg., Francisco Luis Gomes Rd., Vasco-da-ama 403 802 ; 22. Tyres India, Bicholim 403 504.

ndustrial Estates : (Names of Govt. Estates)— Corlim Industrial Estate, Corlim, Ilhas-Goa ; 2. Margao ndustrial Estate, St. Jose de Areal, Margoa-Gao ; 3. San-oale Industrial Estate, Sancoale, Mormugao ; 4. Daman ndustrial Estate, Daman ; 5. Mapusa Industrial Estate, apusa. Two more industrial estates are coming up at ivim and Bicholim.

mall-Scale Industries Sector includes industries ich as capacitors, zip fasteners, fishing nets, wick oves, paints, cutting tools, castings, carbon papers, ern gear and propellers, spectacle frames, drugs and narmaceuticals, rubber tyres, plastic articles, rubber arts, assembly of wrist watches, coconut shell powder, dustrial furnaces etc.

ndustrial Development Agencies :

- Directorate of Industries and Mines, Govt. of Goa, Daman & Diu, Udyog Bhavan, Panaji 403001.
- Small Industries Service Institute, Audhi Mapari Bldg., Margao 403601.
- Maharashtra Small Scale Industries Development Corpn., Margao 403601.
- Maharashtra State Financial Corpn., Panaji 403 001 (with branches at Margao and Daman).
- Goa, Daman and Diu Industrial Development Corpn., Panaji 403 001.
- Economic Development Corpn. of Goa, Daman and Diu, Panaji 403001.

abour (1976): No. of unions: 75; no. of workers: 2,927 ; no. of strikes : 10 ; man-days lost : 1,747.

xports: The export earning during 1976-77 was s. 84·5 million. Main export items are : pesticides, pellets om pelletisation plant, cotton yarn, sugar, rubber tyres, nned and frozen fish, canned fruits, processed cashew-its, industrial furnaces, flooring tiles, wick stoves, silk bres, plastic goods, liquor etc.

lectronics unit : Goa entered the electronic era with e inauguration of its first unit on Dec. 19, 1976, to pro-uce telecommunication transmission coils entirely for the dian Telephone Industries, Bangalore.

The Goa Electronics Ltd. is scheduled to manufacture ,000 coils in the first phase. This project is being imple-ented in collaboration with Electronics Corporation of dia.

/atch Unit : The Economic Development Corpn., a has set up a subsidiary company known as Goa Time vers Ltd. to assemble 250,000 watches per year in llaboration with HMT, Bangalore.

DUCATION (1977-78)

No. of Schools	No. of pupils	Boys	Girls
imary 1,134	118,642	64,598	54,044
ddle 300	61,696	35,322	26,374
ondary 230	33,719	19,544	14,175
gher Secondary 16	4,828	2,875	1,953

of Colleges	No. of Students	Boys	Girls
Science and Commerce 9	5,296	3,337	1,959
ofessional 6	1,445	1,153	292

University	No. of Students	Men	Women
Post Graduates Centre, Panaji	419	227	192

Education is free upto Standard VIII in all Government and aided schools.

An independent territorial Secondary School Certificate Board has been set up since Aug. 15, 1975.

PUBLIC HEALTH (1976-77)

No. of hospitals : private including nursing homes 52 : Government 34.

No. of beds : 2,402 (Govt.), 707 (private) ; no. of doctors : 881 : no. of nurses : 858 ; no. of non-allopathic medical practitioners : N.A. ; no. of medical college : 1 ; amount spent on medicine (incl. Goa Medical College) : Rs. 3,780,172.

COMMUNICATIONS (As on Dec. 31, 1977).

The total number of vehicles registered is 28,002 ; buses: 849; goods vehicles: 6,596 ; taxis : 841 ; tractors : 181 ; private cars & jeeps : 6,390 ; motor cycles and scooters : 12,928 ; auto rickshaws : 217.

Length of motorable roads : Goa 2,539·50 kms., Daman 81·64 kms., Diu 21·182 kms.

A bridge connecting Jua island with Marcela has been constructed. Construction of bridge across Zuari river is in progress and likely to be completed before 1979.

The total length of the national highways nos. 4A, 17 and 17A which pass through this territory is 223 kms.

There is a direct train service between Vasco-da-Gama, Pune and Bombay with a change at Miraj. Goa is also connected with luxury and semi-luxury buses with neighbouring States. Coastal steamer services operate between Bombay and Panaji.

Mormugao is one of the major harbours on the west coast of India. It permits ocean-going vessels of various sizes. Cargo ships mainly from Japan, America and Europe call at the port.

Goa is criss-crossed by as many as half a dozen rivers and rivulets, and internal waterways are being developed fully for transport of men and goods.

Post and Telegraph Facilities : At present there are 187 post offices and two departmental telegraph offices. There are 21 telephone exchanges with equipped capacity of 5,620 lines. The number of public call offices is 64 and it has two telex exchanges. There are also 4 micro wave stations.

Ferries : Over MANDOVI—Panaji/Betim/Verem; Panaji/Britona ; Panaji/Aldona ; Panaji/Piedade/Naroa ; Cais de Gugires/Betim ; Ribandar/Chorao ; Old Goa/Piedade ; Aldona/Corjuven ; Pomburpa/Chorao : and Sarmanas/Tonca.

Over ZUARI : Dona Paula/Marmagoa and Agassaim/Cortalim.

Over CHAPORA: Siolim/Chopdem and Colvale/Macazana.

PRESS

Leading Dailies :

Name	Town	Language
Navhind Times	Panaji	English
Navprabha	Panaji	Marathi
Gomantak	Panaji	Marathi
Rashtramat	Margao	Marathi
O Heraldo	Panaji	Portuguese/ English
West Coast Times	Margao	English

Village Panchayats : There are 194 village panchayats.

Housing: The Goa, Daman and Diu Housing Board was constituted on March 20, 1969. During the Fifth Plan Rs. 14·01 million has been earmarked for housing schemes entrusted to the housing board as follows: subsidised industrial housing Rs. 645,000; low income group Rs. 2·0 million; middle income group Rs. 5·95 million; slum clearance scheme Rs. 1·5 million; land acquisition and development Rs. 3·37; and assistance to the Housing Board Rs. 550,000.

Annual Plan : The outlay for 1977-78 is Rs. 210·6 million which has been allocated under major heads as follows: agriculture & allied activities Rs. 37·3 million; co-operation Rs. 2·0 million; water & power development Rs. 79·2 million; industry & minerals Rs. 5·0 million; transport & communications Rs. 26·9 million; social & community services Rs. 59·9 million; and economic services Rs. 0·3 million.

Rivers : The Tirakol, the Chapora, the Narora, the Mandovi, the Kandepar, the Sinquerim, the Mapusa, the Cotorem, the Bicholim, the Sanquelim, the Zua Paroda, the Sal, the Talpona and the Galgibaga.

Historic Dates : Occupation of Goa by Alfonso Albuquerque : November 25, 1510 ; Occupation of Diu Portuguese : 1535 ; Occupation of Daman by Portug 1559 ; Establishment of Inquisition in Goa : 1560 ; Treaty between Shivaji, founder of the Maratha E and the Portuguese : December 11, 1667 ; Maratha with Portuguese for conquest of Bassein : 1737-17 Proclamation of the Portuguese Republic : Decem 1926 ; Civil Disobedience Movement for Goa's Liber June 18, 1946 ; Liberation of Dadra : July 22, liberation of Nagar Haveli : August 2, 1954 ; Judg of the Hague Court regarding the case the right of passage over Indian territory (Po vs. India) : April 12, 1960 ; Liberation of Goa, Da Diu and appointment of Military Governor : Dec 19, 1961 ; Installation of Civil administration : June 1962 ; First democratic elections : December 9, 19 Installation of the first popular Ministry : Decemb 1963.

GUJARAT STATE

CAPITAL : Gandhinagar ; **Area :** 649 sq. kms.; **Population :** 24,055.

Area of the State : 195,984 sq. kms.; **Population :** 26·697 million ; **Rural :** 19·20 million ; **Urban :** 7·50 million ; **Density :** 136 per sq. km. **Sex Ratio :** 934 females per 1,000 males. **Literacy :** 35·79 per cent.

Districts	Headquarters	Area sq. kms.	Population
Ahmedabad	Ahmedabad	8,707	2,910,307
Vadodara	Vadodara	7,788	1,980,065
Banaskantha	Palanpur	12,702	1,265,383
Bharuch	Bharuch	9,045	1,109,601
Mehsana	Mehsana	9,027	2,092,468
Panch Mahals	Godhra	8,866	1,848,804
Surat	Surat	7,745	1,786,924
Dangs	Ahwa	1,683	94,185
Sabarkantha	Himatnagar	7,390	1,187,637
Jamnagar	Jamnagar	14,125	1,111,343
Bhavnagar	Bhavnagar	11,155	1,405,285
Amreli	Amreli	6,760	848,730
Junagadh	Junagadh	10,607	1,656,677
Kutch	Bhuj	45,612	849,769
Rajkot	Rajkot	11,203	1,624,072
Surendranagar	Surendranagar	10,488	845,454
Gandhinagar	Gandhinagar	649	200,642
Kheda	Kheda	7,194	2,451,387
Valsad	Valsad	5,238	1,428,742

Major Cities : With population over 100,000 and area in sq. kms.: Ahmedabad 1,585,544, 92·98 ; Surat 471,656, 8·26 ; Vadodara 466,696, 25·17 ; Rajkot 300,612, 36·26 ; Bhavnagar 225,974, 23·33 ; Jamnagar 214,816, 14·42 ; Nadiad 108,269, 28·28.

No. of Villages : 18,275 : **Uninhabited :** 422 : **No. of Talukas :** 184 ; **No. of Towns :** 211 ; **No. of Municipal Corpns. :** 4 ; **District Panchayats :** 19 : **Taluka Panchayats :** 182 ; **Nagar Panchayats :** 90 : **Gram Panchayats :** 12,662.

State Boundaries : The State is bound by Jalor, Sirohi, Udaipur, Dungarpur and Banswara districts of Rajasthan in the north and north-east, Jhabua district of Madhya Pradesh, Dhulia and Nasik districts of Maharashtra in the south, Arabian Sea and Pakistan in th north-west.

State Language : Gujarati is the language of admi tration, law courts and university, and Hindi for com munication with the Union Government.

AGRICULTURE

Estimated foodgrain production during 1976-77 w 4·03 million tonnes and area was 10·49 million h

Forests : 18,892 sq. kms. The forest area in the Sta is barely 9 per cent of which a large portion is ba and divided. The State Govt. had prepared an am programme for the extension of forestry during the Fi Plan. An amount of Rs. 90 million had been propos the Plan against Rs. 35·5 million in the Fourth P

Fisheries : The State coast line is about 1,600 k long. The production of fish during 1976-77 was 24 tonnes. The total number of fisherman's co-op the State was 90 during 1975-76. Fish prod expected to increase to 280,000 tonnes by the end of Fifth Plan. (Please see chapter on ' Fisheries ' also.)

Major Irrigation and Power Projects : Irrig facilities are most inadequate. Out of 12·5 million hec tares of cultivable land only 1·5 million he assured irrigation. During 1975-76 the State had created irrigation potential for 81,000 a cost of Rs. 448·5 million and also provided in the 1 77 budget Rs. 481·3 million for additional tial of 83,000 hectares. There are 1,187 gove wells and the Government has also set up the G Water Resources Development Corporation for development of ground and surface water resou corporation proposed to drill 3,200 tube-wells Fifth Five Year plan. This will help gation potential of 256,000 hectares. The potential was 1,676 mw as on June 1976. (on ' Irrigation and Power Projects) '.

INDUSTRIES (1976)

The major industries of the State are : Textile ginning and pressing of cotton, general and engineering, vegetable oils, chemicals (including soda ash and cement.

Particulars regarding number of working factories and average number of workers employed therein daily respectively under each category are as follows:—

Textile : 1,184 ; 240,857 ; food except beverages : 888 ; 42,436 ; non-metallic mineral products : 873 ; 38,410 ; machinery except electrical : 927 ; 34,726 ; chemical and chemical products : 745 ; 41,409 ; transport equipment : 96 ; 8,555 ; basic metal industries : 450 ; 11,270 ; beverages : —; tobacco and tobacco products : 234 ; 8,276 ; metal products : 666 ; 18,767.

During the year 1976-77, 38 licences were assured under the Industries Development and Regulation Act, 1951.

Production data of some of the industries is as follows (1976) : Hydrogenated oil : 51,800 tonnes ; cement : 1,816,000 tonnes ; caustic soda : 43,900 tonnes ; cotton yarn : 198,700 tonnes ; sulphuric acid : 216,800 tonnes ; cotton cloth : 1,306·7 million metres ; Super-phosphate : 100,000 tonnes ; paper and paper board : 29,067 tonnes ; power driven pumps (nos.) : 45,000 ; diesel engines (nos.) : 8,369 ; clocks (nos.) : 64,000 ; electric motors (H.P.) : 29,000 ; ceramics : 16,392 tonnes ; refractories : 12,400 tonnes ; salt : 2,459,000 tonnes.

Major Public Sector Undertakings : Indian Petro-Chemical Corporation ; Oil & Natural Gas Commission; Hindustan Salts and Indian Oil Corporation ; Modern Bakeries, Ahmedabad.

New Industrial Projects : The new projects envisaged include heavy water project by Atomic Energy Commission at Vadodara and telephones, machine tools, ordnance items, tractors and D.D.T.

Small-scale Industries : The number of small-scale industrial units registered with the Commissioner of Industries has increased from 29,122 at the end of June 1976 to 31,142 at the end of June 1977.

Industrial Estates : Gujarat Industrial Development Corporation has 78 industrial estates (including 13 set up by the industries). These are spread over 17 of the 19 districts. Fifty-two estates are in urban areas, 16 in semi-urban areas, and 10 in rural areas.

INDUSTRIAL DEVELOPMENT AGENCIES

Gujarat Industrial Development Corporation, Fadia Chambers, Ashram Rd., Ahmedabad 380009.

Gujarat State Finance Corporation, Jal Darshan, Ashram Rd., Ahmedabad 380009.

Gujarat State Industrial Investment Corporation, Natraj Chambers, Ashram Rd., Ahmedabad 380009.

Gujarat Small Industries Corporation, Bhagavati Chambers, opp. Gujarat Vidyapith, Ashram Rd., Ahmedabad 380009.

Gujarat Agro-Industries Corporation, "Khet Udyog", Stadium Rd., Ahmedabad 380014.

Gujarat Mineral Development Corporation, Kanij Bhavan, Ashram Rd., Ahmedabad 380009.

Gujarat Export Corporation, Industry House, Ashram Rd., Ahmedabad 380009.

Small Industries' Service Institute, Government of India, Harisidh Chambers, Ashram Rd., Ahmedabad 380009.

Liaison Officer (Industry), Dhanraj Mahal, Apollo Bunder, Bombay 400001.

Liaison Officer, Gujarat Information Centre, 6, State Emporium Bldg., New Delhi 110001.

•(See chapter on 'State Govt. Undertakings' for details.)

Labour : Workers by Industries : total no. of workers : 8,395,546 (males : 7,072,557 ; females : 1,322,987) ; cultivators (males : 3,173,204 ; females : 446,793) ; agricultural labour (males : 1,248,027 ; females : 639,633) ; livestock, forestry, fishing, hunting & plantation orchards and other activities (males : 155,130 ; females : 11,388) ; mining and quarrying (males : 29,518 ; females : 5,254); manufacturing, processing, servicing and repairs: (*a*) household industry (males : 209,123 ; females : 27,449) ; (*b*) other than household industry (males : 737,008 ; females : 39,266) ; construction (males : 103,593 ; females : 16,316) ; trade and commerce (males : 561,928 ; females : 20,689) ; transport and communications (males : 233,875 ; females : 5,824) ; other services (males : 621,151 ; females : 110,377) ; non-workers (males : 6,729,937 ; females : 11,571,992).

Factories (1976) : No. of factories : 8,861 ; average daily no. of workers employed : 540,587.

Employment Exchanges : During 1974-75 about 16,000 persons were placed in employment as against the total registration of 236,000.

No. of industrial disputes (1976) : 86 ; no. of workers involved : 22,359 ; no. of man-days lost : 388,516.

EDUCATION (1976-77)

Schools	Number	Pupils	Teachers
Primary	22,500	4,200,000	112,000
Secondary	2,740	864,000	34,500

Engineering Institutes (1974-75)

	Intake Capacity	Sanctioned Seats	Actual Admissions
Degree 7 ..	1,963	1,993	1,848
Diploma 19 ..	3,320	3,410	3,758

Universities: *Gujarat Ayurved University*, Dhanvantari Mandir, Jamnagar 361001. *Gujarat University*, Ahmedabad 380009. *Gujarat Vidyapith* (National University of Gujarat), Ahmedabad 380014. *Maharaja Sayajirao University of Baroda*, Vadodara 390002. *Sardar Patel University*, Vallabh Vidyanagar. *Saurashtra University*, Rajkot 360001. *South Gujarat University*, Government Medical Campus, Mathura Gate, Surat 395001.

PUBLIC HEALTH (1976)

Hospitals and dispensaries : 1,543 ; beds : 19,764 ; doctors : 2,185 ; nurses : 5,134 ; primary health centres : 251 ; sub-centres : 786.

Under family welfare programme 206,070 vasectomy, 111,043 tubectomy and 28,175 IUCD insertions were done during 1976-77.

COMMUNICATIONS (as on March 31, 1977).

Length of Roads : 39,515 kms. A provision of Rs. 580 million was made in the Fifth Plan to build 3,873 kms. of roads. National highways : 1,369 kms. ; state highways : 8,747 kms. ; major dist. roads : 9,085 kms. ; other dist. roads : 10,476 kms. ; and village roads : 11,102 kms.

Post & Telegraph (1976-77) : No. of post offices : 7,301 ; Telegraph Offices : 864.

Railways (1976–77) : 5,597 kms. ; broad gauge : 1,153 kms. ; metre-gauge 3,328 kms. ; narrow gauge : 1,120 kms.

Motor Vehicles (March 31, 1977): Motor cycles: 131,235; motor cars: 38,851; taxi cabs: 1,565; auto-rickshaws: 14,824; stage carriages: 6,275; lorries: 22,877; trailers: 13,016; tractors: 16,225; others: 45,791.

Press: Leading dailies with their circulation figures.

English: Times of India, Ahmedabad, 27,930; Indian Express, Ahmedabad, 16,199; Western Times, Ahmedabad 16,000.

Gujarati: Gujaratmitra and Gujaratdarpan, Surat 51,397; Janasatta, Ahmedabad, 47,256; Loksatta, Vadodara, 28,161; Phulchhab, Rajkot, 46,215; Sandesh, Ahmedabad, 102,046; Gujarat Samachar, Ahmedabad, 99,924; Jai Hind, Rajkot, 37,517; Pratap, Surat, 13,876.

GENERAL

Annual Plan: The outlay for 1978-79 Annual Plan is Rs. 3,350 million. The sector-wise distribution is as follows: Agriculture and allied services including co-operation: Rs. 564·2 million; irrigation: Rs. 817·5 million; power: 922·5 million; industries and minerals: Rs. 129·5 million; transport and communications: Rs. 276·0 million; social and community services: Rs. 631·4 million; and economic services Rs. 8·9 million.

Rivers: The Banas, the Mahi, the Sabarmati, the Shetrunji, the Tapti, the Luni, the Narmada and the Saraswati.

Minerals: Gujarat is rich in minerals like salt, [illegible] stone, manganese, gypsum, china clay, calcite, ba [illegible] etc. Large deposits of bauxite of very good grade [illegible] located in Saurashtra and Kutch. The reserves of [illegible] are about 17 million tonnes. The fluorite deposit [illegible] near Chhota-Udepur in Vadodara district is one of [illegible] largest in Asia and has reserves of 11·6 million [illegible] Limestone reserves run into several thousand m [illegible] tonnes with the best quality located in Saurashtra [illegible] Kutch. The State also has deposits of lignite, china and other clays, glass sand and quartz, dolomite, [illegible] calcite etc.

Production (1974)

	Quantity (tonnes)	Va (Rup
Agate	836	17
Bauxite	151,522	[illegible]
Chalk	54,336	[illegible]
Quartz & Silica	40,078	[illegible]
Limestone..	2,480,387	[illegible]
Fluorite Crude	31,804	1,43
,, Graded	75	[illegible]

HARYANA STATE.

CAPITAL: Chandigarh.

Area of State: 44,222 sq. kms. **Population of State:** 10,036,808. **Density:** 227 per sq. km. **Sex Ratio:** 867 females per 1,000 males. **Literacy:** 26·89 per cent.

District	Area sq. kms.	Population
Ambala	3,833	1,098,405
Bhiwani	5,090	761,953
Gurgaon	4,889	1,372,197
Hissar	6,331	1,127,525
Jind	3,311	772,111
Karnal	3,725	988,437
Kurukshetra	3,738	862,899
Mahendragarh@ ..	2,983	734,143
Rohtak	3,843	1,098,548
Sirsa	4,279	533,604
Sonepat	2,200	686,986

(District headquarters have the same name)

@ The name of the headquarter is Narnaul.

Cities: With over 100,000 population. Rohtak (Area: 11.66 sq. kms.) 124,755; Ambala Cantt. (Area: 36·26 sq. kms.) 102,493.

No. of Towns: 65. **No. of Villages:** 7,064 (Inhabited: 6,731).

State Boundaries: The State is bound by Punjab on West and portion of Himachal Pradesh in the north, Uttar Pradesh and Delhi in the east, Rajasthan in the south and west.

State Language: Hindi.

AGRICULTURE

The target fixed for production of foodgrains during 1978-79 was 5·50 million tonnes.

Area under forests is 1,522 sq. kms.; net area [illegible] 3·62 million hectares. Area sown more than once: [illegible] million hectares. (See chapter on "Food & Agricul [illegible] for details.)

Irrigation: The total gross irrigated area is 2·6[illegible] m [illegible] hectares. Main irrigation schemes are the Western Jam [illegible] Canal, Bhakra Canal and Gurgaon Canal. S [illegible] Gui Canal, Loharu Canal, Siwani Canal (Stages I to IV [illegible] Pandit Jawaharlal Nehru Lift Irrigation Scheme. [illegible] deep tubewells had been energised and 20,[illegible] pum [illegible] sets installed as on Jan. 1, 1978.

Dairying: Six cattle development projects are [illegible] in the districts of Karnal, Gurgaon, Kuruk [illegible] Bhiwani, Ambala and Sirsa. A Jersey cross-breed [illegible] station has been functioning at Jagadhri.

The Indo-Australian cattle breeding project at H [illegible] and the frozen semen bank at Gurgaon have been set [illegible] in collaboration with Australian and Danish Governme [illegible] respectively for supporting cross-breeding programme [illegible]

Out of 1·99 million breedable cattle 0·60 million w [illegible] covered under the breed improvement work. Du [illegible] 1978-79, under the Desert Development programme [illegible] the Govt. of India, it is proposed to establish three [illegible] intensive cattle development projects in [illegible] Tohana tehsils of Hissar dist. and Dabwali tehsil of S [illegible] dist.

The Haryana Dairy Development Corporation has [illegible] active in processing milk, providing outlet for the [illegible] milk to the producers and also [illegible] the consumers [illegible] get milk and milk products at reasonable prices.

Milk plants at Bhiwani, Ambala and Rohtak have [illegible] leased to Haryana Dairy Development Coop. F [illegible] for further development. Three more milk plants [illegible] coming up at Faridabad, Sirsa and Hissar.

The State has provided Rs. 12·4 million for [illegible] animal husbandry programmes during the year [illegible] *Sheep* breeding farms in Hissar and [illegible] wool extension centres in the State supply good quality sheep to sheep breeders to improve their economic conditions. The wool grading-cum-marketing centre procures wool from the sheep-breeders.

180 veterinary hospitals-cum-breeding centres and 128 dispensaries are functioning to control animal diseases.

Poultry : The State has about 96,000 poultry population. One poultry farm at Ambala and 17 poultry extension centres are working in the State. The poultry farm has been modernised for rearing 8,000 layers annually.

Piggery : Population : 143,000. Two pig breeding farms (Hissar and Ambala) and 13 piggery development blocks are functioning.

Forests : (Area in hectares) : Reserved : 22,256 ; protected 74,049 ; unclassed : 8,437 ; private : 41,623 ; Total 146,365.

During 1977-78 Rs. 14·0 million have been spent for intensive afforestation schemes extending to 6,919 hectares.

The State Government maintains a bird sanctuary at Sultanpur, a mini zoo at Pinjore, and a deer park at Hissar.

The expenditure for the development of forest during 1977-78 was about Rs. 26·20 million.

Electricity	As on 31–3–1967	As on 31–3–1977
No. of villages electrified ..	1,251	6,731
No. of irrigation tube-well connections	20,190	154,540
No. of electric connections (consumers)	211,914	848,113
Per capita consumption of electricity (units)	57	167

INDUSTRIES : Haryana produces industrial goods worth Rs. 11,000 million every year according to a study conducted in 1977. As many as 302 large and medium units and 16,500 small scale units are engaged in the manufacture of a wide range of goods.

There are ten textile mills in Haryana located at Bhiwani, Hissar, Faridabad, Sirsa and Panipat. Five sugar factories at Karnal, Panipat, Rohtak, Sonepat and Yamuna Nagar and two cement factories at Surajpur and Dalmia-Dadri are working in the State.

A shoe factory, 14 mini steel plants, five large-scale cycle assembly and cycle component units and eight rerolling mills are functioning in different parts of the State.

Over 862 industrial licences and letters of intent have been granted under large and medium scale industries to manufacture items such as tractors, sulphuric acid, paper and paper boards, carbonless copying paper, vegetable ghee, electronic components, televisions, refrigerators etc.

Production of important industries (1975-76) :

Cotton textiles worth Rs. 699·8 million ; cement 446·664 tonnes ; paper 54·221 tonnes ; sugar : 106,961 tonnes ; cycles 581,333 ; sewing machines 8,337 ; agricultural implements and machine tools worth Rs. 105·8 million; steel rerolling 72,807 tonnes ; glass worth Rs. 9·9 million ; woollen textiles worth Rs. 174·09 million ; ractors (No.) 19,246.

Labour : No. of registered trade unions (as on Dec. 31, 1976) : 385. No. of registered factories : 2,382 ; no. of workers engaged in the registered factories : 118,696.

Industrial Disputes (1976) : Disputes handled by conciliation : 2,396 ; disputes settled : 567 ; cases referred for arbitration : 6 ; referred for adjudication : 366 ; man-days lost : 25,284.

EDUCATION 1977-78

Schools	Govt.	Non-Govt.
Primary schools	5,065	76
Middle schools..	738	17
High schools	840	207
Hr. sec. schools	77	22
Total no. of teachers	49,627*	
Trained	48,749*	
Untrained	878*	
Total no. of students in schools	1,668,617*	

*Figures relate to 1976-77.

Colleges	Govt.	Non-Govt.
General Education		
Arts & science colleges	13	86
Teacher training colleges :—		
(*i*) Graduate level	1	19
(*ii*) Undergraduate level ..	6	—
Medicine	1	5
Agriculture	—	3
Engineering	—	1
Physical training ..	—	1
Veterinary science ..	—	2
Technology	—	1
Dairy science	1	1
Home science	—	1

Universities :

1. *Haryana Agricultural University, Hissar,* for research and extension education. The University follows the trimester system, as in the Land Grant Universities in the United States. The University has four constituent colleges all of which are residential institutions.

2. *Kurukshetra University, Kurukshetra,* for the encouragement of research especially in Sanskrit, Prakrit, Indian philosophy etc. It has developed into a multifaculty institution with 32 departments.

3. *Rohtak University* has started functioning since 1976 and 12 colleges within a radius of 16 kms. are affiliated to it.

PUBLIC HEALTH (1977-78)

Hospitals and Dispensaries and Primary Health Centres	407
Total No. of Beds	8,308

Per capita provision on health Rs. 15·30.

A provision of Rs. 173·9 million has been earmarked for various schemes under health schemes for the year 1978-79.

Family Planning :

No. of Family Planning Clinics	101
Sterilisation operations performed during the year 1973-74	17,063
IUCD insertions done..	21,460

Housing : The housing board has constructed 3,186 houses for economically backward people and allotted them during 1977-78. It is expected that 1,787 more houses will be constructed in a year.

COMMUNICATIONS

Roads (upto 1977-78) : Metalled 16,075 kms. maintaining link with 5,452 villages.

During the year 1976-77, Haryana Roadways has recorded a net profit of Rs. 10·789 million. Fleet strength 2,000 buses ; staff strength 11,000 ; daily kms. operated 510,000 ; no. of passengers carried daily about 600,000. Nationalisation of passenger road transport in State completed on Nov. 30, 1973.

GENERAL

Annual Plan (1978-79) : The outlay is Rs. 2,100 million. 68 per cent of the outlay, Rs. 1,440·9 million, has been proposed for irrigation and power sector of the State. Agriculture and allied sectors account Rs. 226·8 million ; transport and communicat Rs. 147·8 million ; social and community ser Rs. 2·4 million.

Press : Hindi : *Haryana Nirman*, Rohtak ; *H* *Times*, Mahendragarh ; *Mewat*, Gurgaon ; *Sunehri* [illegible] Gurgaon.

Tourism: Haryana Govt. has set up tourist complex different parts of the State where facilities like restaura accommodation, boating etc. have been provided.

Lakes: There are four lakes in the State. They Badkhal lake, 51·40 hectares, about 34 kms. from Delhi and 5 kms. from Faridabad ; [illegible] lake at S Kund, about 16 kms. from New Delhi ; Karna la Uchana, near Karnal, on Delhi-Ambala National hi about 124 kms. from New Delhi ; Tilyar lake at [illegible] on Delhi-Ferozepur highway, situated at a distanc 72 kms. from Delhi.

HIMACHAL PRADESH STATE

CAPITAL : Simla ; **Population :** 55,326 ; **Area of State :** 55,673 sq. kms. ; **Population of State :** 3,460,434 ; **Density :** 62 per sq. km. ; **Literacy :** 31·32 per cent ; **Sex Ratio :** 958 females per 1,000 males.

Per Capita Income : Rs. 1,022.

District	Head-quarters	Area in '000 sq. kms.	Population
Chamba	Chamba	8·2	255,233
Kangra	Dharamsala	5·3	800,863
Mandi	Mandi	4·0	515,180
Kulu	Kulu	5·4	192,371
Lahul & Spiti	Keylong	12·0	23,538
Bilaspur	Bilaspur	1·2	194,786
Simla	Simla	5·0	419,844
Sirmur	Nahan	2·8	245,033
Kinnaur	Kalpa	6·6	49,835
Solan	Solan	2·1	237,403
Hamirpur	Hamirpur	1·6	265,011
Una	Una	1·5	261,337

No. of towns : 36 ; **No. of inhabited villages :** 16,916.

State Boundaries : The State is bound by Jammu and Kashmir in the north, by Punjab in the west and south-west, by Haryana in the south, Uttar Pradesh in the south-east and by Tibet in the east.

State Language : Hindi.

AGRICULTURE : The main agricultural wealth consists of fruits such as apple, apricot, peach and vegetables like seed potato, ginger, tomato, peas etc. Salt, timber, firewood and charcoal are other important items. Seed potato is the chief cash crop. During 1976-77 an estimated 85,000 tonnes of potato had been produced from an area of 15,000 hectares. Forests supply the largest quantities of coniferous timber and fuel (include firewood and charcoal) to northern India. The value of major forest products for 1975-76 was Rs. 138·89 million. (See Chapter on " Food & Agriculture " for other details.)

Irrigation and Power Projects : The rivers Sutlej and Beas provide about 80 per cent of the total hydel power resources. (For details see chapter on " Irr and Power ".)

Electricity (1977-78) : No. of villages electrified: 7, per capita consumption of electricity: (Units) 75 kwh.

INDUSTRIES: It is proposed to set up a cement p in the public sector costing Rs. 80 million with a capa of 600 tonnes a day.

At present there are two turpentine and rosin facto Nahan and Bilaspur. Other products manufactur varnish, mono-block pumps, electric meters, [illegible] crushers and several other agricultural implements.

There are 20 medium sized and 3,800 small indu units in the State.

Industrial Development Agencies : H Pradesh State Small Industries and Export Corpora Ltd., Simla 171001. Himachal Pradesh Fina Corporation, The Mall, Simla 171001. Mineral and In trial Development Corporation Ltd., Kishore Bhav The Mall, Simla 171001.

Labour : Total no. of workers (1971 census) : 1,2 workers as per cent of total population : 36·82 ; vators : 902,767 ; agricultural labourers : 53,569 ; workers : 304,470 ; non-workers : 2,163,526.

Industrial Disputes (1972) : No. of disputes : 8 ; workers involved : 632 ; no. of man-days lost : [illegible] no. of disputes referred to adjudication/c [illegible] Nil.

Trade Unions (1970) : No. of unions on register : [illegible] no. of unions submitting returns : 49 ; total memb ship : 17,000.

EDUCATION (1977-78) : The following are the [illegible] of schools and students respectively : primary : 5, 482,000 ; middle : 1,460 ; 118,000 ; high/higher [illegible] 69,000 ; Sanskrit institutions : 7.

Colleges : Colleges for general education : 20 hav enrolment of over 14,000 students.

University : *Himachal Pradesh University,* [illegible] *Hill, Simla* 171005. Established : 22nd July, 1970.

PUBLIC HEALTH (1977-78) : No. of [illegible] primary health centres: 77 ; allopathic [illegible] ayurvedic dispensaries : 403 ; family planning [illegible]

T.B./leprosy sanitorium clinics: 98; no. of beds: 5,288; o. of doctors: 496; no. of *vaids*: 345.

COMMUNICATIONS (1977-78): The figures regarding ationalised transport are as under: buses: 836; trucks: 43; cabs: 61; no. of routes under operation: 510; distance overed ('000 km) 3,950.

Length of Motorable Roads (April 1, 1978): Double-lane heavy vehicular roads: 1,994 kms.; single-lane eavy vehicular roads: 8,564 kms.; jeepable roads: 675 ms.; less than jeepable: 3,500 kms.; national highways: 64 kms.

ANNUAL PLAN: Planning Commission has approved an outlay of Rs. 730 million for 1978-79 against an outlay of Rs. 563·5 million for 1977-78. Out of this an amount of Rs. 72·0 million has been earmarked for tribal areas.

GENERAL: Rivers: The Sutlej, the Beas, the Ravi, the Chenab and the Yamuna.

Lakes: Govind Sagar, Renuka and Rewalsar.

Minerals: Himachal Pradesh is known to have rich deposits of limestone, gypsum, dolomite, barytes and pyrites. These are mainly found in Sirmur, Bilaspur, Simla, Chamba and Kangra districts.

JAMMU AND KASHMIR STATE

CAPITAL: Summer — Srinagar; Winter — Jammu.

Area of the State: 222,236 sq. kms. (provisional geographical area figures supplied by the Surveyor General). Of this 78,932 kms. are under illegal occupation of Pakistan and 5,180 kms. illegally handed over by Pakistan to China. This also includes 37,555 kms. under illegal occupation of China. (1971 Census).

Population of the State: 4,616,632.

Religion-wise break-down of population in the State: Muslims: 3,040,129; Hindus: 1,404,292; Christians: 7,182; Buddhists: 57,956; Sikhs: 105,871; Jains: 1,150.

Sex Ratio: 878 females per 1,000 males. **Percentage** of Urban to Rural population: 18·59. **Literacy:** 18·58 per cent (Males: 26·75 per cent; Females: 9·28 per cent).

Districts (10)	Area (in sq. kms.)	Population Total
I. **Kashmir province**		2,540,992
1. Anantnag	5,382·0	832,280
2. Baramulla	7,458·0	775,724
3. Ladakh	95,876·0	105,291
4. Srinagar	3,013·0	827,697
II. **Jammu province** ..		2,075,640
1. Doda	11,691·0	342,220
2. Jammu	3,165·0	731,743
3. Kathua	2,651·0	274,671
4. Poonch	1,658·0	170,787
5. Rajouri	2,681·0	217,373
6. Udhampur..	4,549·0	338,846
Total ..		4,616,632

The District headquarters of the State are of the same ame except for Ladakh district where the headquarter s Leh.

Major cities: (Over 100,000 population).

	Population	Area
(*a*) Srinagar	403,413	47·08 sq. kms.
(*b*) Jammu	155,338	20·46 sq. kms.

No. of towns: 45. **No. of villages:** (*i*) Inhabited ,503; (*ii*) Uninhabited 239. **No. of tehsils:** 46.

State boundaries: The State is bound by Pakistan in the West, Afghanistan and USSR in the north-west, China in the north, Tibet in the east and Himachal Pradesh and Punjab in the South.

State Languages: (*a*) Official: Urdu; (*b*) Regional: Kashmiri, Dogri, Balti, Dardi, Pahari, Ladakhi and Punjabi.

AGRICULTURE: Agriculture is the main occupation of the people of the State employing about 77 per cent of the population. The major crops are paddy, maize and wheat. Barley, bajra and jawar are also grown in some parts of the State. Gram is grown in Ladakh.

The area under food crops during 1975-76 was 772,663 hectares. Of this paddy was sown in 327,780 hectares and wheat in 172,398 hectares. The area under maize was 282,862 hectares and the area under other cereals was 47,747 hectares. Pulses covered about 52,202 hectares.

The gross irrigated area in 1975–76 was 371,080 hectares. The average yield rate during 1975–76 was rice 16·82 quintals per hectare, wheat 8·82 quintals per hectare and maize 13·19 quintals per hectare.

The total off-take of fertiliser during 1977–78 was 145,000 tonnes as against 12,000 tonnes in 1976–77.

The area expected to be covered under high yielding varieties of seeds by the end of 1977–78 is 401,000 hectares.

The total production of foodgrains during 1975–76 was 986,000 tonnes. The expected production during 1977–78 is 1·11 million tonnes.

Agrarian Reforms: Jammu and Kashmir State was the first in the country to have introduced fundamental agrarian reforms in 1948-50 abolishing all *jagirdari* and feudal institutions. The Agrarian Reforms Act (dealing with the land reforms), the Debtors' Relief Act (concerning the problem of rural indebtedness) and the Restitution of Mortgaged Properties Act, (providing restitution of mortgages made in distress) have been enacted by the State Legislature recently.

The Debtors' Relief Act and the Restitution of Mortgaged Properties Act have since been brought into force.

Horticulture: The area under fruit orchards reached 80,900 hectares in 1976–77. Fruit exports from the State during 1975–76 was 260,000 tonnes.

Livestock: The total number of livestock as per 1972 livestock census was estimated at 4,285,000. Of these, cattle accounted for 2,057,000, buffaloes 493,000, sheep 1,072,000, goats 569,000 and horses and ponies 60,000. There were 34,000 livestock of other categories.

The total number of poultry in 1972 was 1,654,000.

Milk production, estimated to be 191,000 tonnes in 1975-76, was likely to reach a level of 201,000 tonnes at the end of 1976-77.

Egg production was expected to go up by one million by the end of March 1977.

Meat production was expected to be at 6,645 tonnes by the end of 1976-77 as against 6,475 tonnes in 1975-76.

Wool production would be 1,575 tonnes.

IRRIGATION & POWER: The installed capacity of power has risen from 6·5 mws in 1947 to 138·62 mws at present. The number of villages electrified by the end of 1976–77 was 2,893. The target for 1977–78 is electrification of 520 additional villages. The important power projects under execution include the Rs. 2,200 million-Salal Hydro Electric project, undertaken by the Central Government. The project is designed to generate 345 mws of power. The first unit of the Lower Jhelum Hydel project with a generating capacity of 35 mw has been commissioned. The Upper Sindh Hydel Project (22·6 mws) is also nearing completion. Work on the Stakna Hydel Project in Ladakh (4 mws) has started. The Dulhasti Power project in Kistwar is also likely to be taken up for execution by the Centre.

The irrigation potential created at the end of 1976-77 is estimated at 212,000 hectares as against the previous year's figure of 197,000 hectares. The Tawi Lift irrigation project created an irrigation potential of about 12,900 hectares. Work on the Ravi Canal, estimated to cost Rs. 360·0 million has been started. The outlay for the project for the current year is Rs. 36·4 million. Work on the Marwal-Lethapora Lift Schemes in Kashmir and on Ranjan and Rajal schemes in Jammu is also progressing. The Kathua Canal and the Pratap Canal, which irrigate an area of 17,140 hectares, have been completed.

COMMUNICATIONS: The total road length at the end of 1976-77 was 7,273 kms. including 2,051 kms. of unsurfaced roads.

Road Transport: Government Transport Undertaking, a departmental undertaking, has been converted into a Corporation, namely, the Jammu and Kashmir Road Transport Corporation.

There were 1,666 buses and 286 mini-buses, both in the private sector as also in the public sector in the State at the end of November, 1976. The number of public carriers was 4,303 and those of private carriers 337. Besides 1,371 taxis, there were 372 auto-Rickshaws (6/10 seaters) and 80 auto-Rickshaws (2 seaters). The J&K Road Transport Corporation had a non-commercial fleet of 35 staff cars, motor cycles etc.

EDUCATION: Education in Jammu and Kashmir, imparted free at all levels, has been brought within the reach of even the poorest sections of the population. The State has two universities, one at Srinagar and the other at Jammu. Institutions imparting higher, technical and professional education include two colleges of education, two medical colleges, two polytechnics and two fine arts colleges—one each at Srinagar and Jammu—one Regional Engineering College, Srinagar, one agricultural college, one Ayurvedic college and one commerce college. A sainik school is also functioning at Nagrota (Jammu).

The per capita cost of education in the State has gone up from Re. 0·80 in 1950-51 to Rs. 44·00 in 1975-76.

The overall expenditure of the Education Department which stood at Rs. 3·349 million in 1947-48 has increased to Rs. 198·36 million in 1975-76.

Institutions: 1975-76 (provisional):

	No. of institutions	No. of teachers
1. Primary schools ..	5,842	8,258
2. Middle schools ..	1,855	10,367
3. High/Higher secondary schools ..	723	12,451
Total ..	8,420	31,076
	(including 2,631 schools for girls)	
4. University teaching deptts. ..	37	188
5. Colleges for general education (including 7 colleges for women) ..	22	1,115
6. Colleges for professional education ..	13	523
7. Colleges for oriental education (including 2 colleges for women) ..	8	78
	80	1,904
		(including 378 female teachers)

MAJOR INDUSTRIES: Jammu and [illegible] have a number of public sector, State [illegible] private industrial units. The Jammu and Kash[illegible] tries Ltd. runs 17 industrial units providing [illegible] to 5,100 persons. The value of output [illegible] during 1974 was Rs. 56·274 million. The [illegible] sector Corporations include the J. & K. [illegible] J.&K. Industrial Development Corporation [illegible] Handicrafts (Sales and Export) Corporation. The [illegible] public sector include spinning mills, silk weaving [illegible] woollen mills, joinery mills, rosin and turpentine [illegible] lignite briquetting plant, cement factory and [illegible] other small-scale and handicraft units. The Go[illegible] also set up the Jammu and Kashmir Small [illegible] Development Corporation to promote small sc[illegible]

In the Central public sector there is HMT W[illegible] at Zainkote (Srinagar) and Indian Telephone [illegible] Units at Srinagar with an annual [illegible] Rs. 15·07 million and Rs. 1·7 million [illegible]

A number of industrial units are [illegible] developing 202 hectare industrial [illegible] Brahamana (Jammu). The first phase [illegible] factory for 900 million cigarettes per annum [illegible] production for some months. It cost about [illegible] Its ultimate annual production [illegible] million cigarettes. The precast concrete fac[illegible] [illegible] Ltd. was commissioned. A Rs. 20 million [illegible] nthetic detergent plant has been commissioned recently. he wool combing plant is already under construction and a w company called Himalayan Wool Combers is being ated. Tawi Scooters was incorporated into another new mpany very recently and has started construction of the ,000 scooters per annum Scooter Factory.

A collaboration agreement has been signed with Camphor d Allied Products to set up a factory for the manu- cture of rosin and turpentine derivatives. Other projects at have been located here include two more private ctor rosin and turpentine factories, a vanaspati plant and modern workshop being set up by the J. & K. Agro In- istries Corporation.

The largest industrial area in Kashmir Valley is at inkote near Srinagar where the HMT Watch Factory located.

A 600-tonne per day cement factory is coming up on hedule at Khrew in Anantnag district. A large fruit ocessing complex involving over Rs. 10 million has ready been located near Sopore in Baramulla district. he Government have cleared a major pharmaceutical nit sponsored by Hoechst Pharmaceuticals, a crystal ass plant to be set up by the Thaper Group, a precision struments factory by the HMT and an electronics mplex to be implemented by the State Industrial evelopment Corporation in collaboration with its sister rporation KELTRON of Kerala. A precision tool anufacturing unit in private sector has also been cleared cently for the valley. A woollen mill at Bemina (Srinagar), modern soap factory at Lethapora (Kashmir), a stainless eel rolling mill at Srinagar and a new woollen spinning ill at Srinagar are at various stages of execution.

A modern unit for the manufacture of finished leather oducts in Kashmir and a brewery-cum-distillery in mmu are expected to begin production shortly.

The total investment involved in all these new projects about Rs. 520 million.

Three units to manufacture sports goods have been ensed. They are being constructed at Lethapora and jbehara.

Other new proposals, at various stages of implementa- n, include projects for a large bakery by Modern Bakeries d., biscuits, fibre glass, automobile components, cigarette hters, packaging material, bauxite refractories, pharma- uticals, diamond cutting, steel foundry and Silicon rbide. The number of village & small-scale industrial its in 1976-77, (ending April 1977), was 3,000, providing ployment to over 16,000 persons.

More than 88,000 persons are engaged in the manufac- e of various traditional handicrafts, such as carpet aving, *numdah* making, shawl making, papier mache, broidery and walnut-wood carving, for which Kashmir famous. Exports of handicraft products which stood Rs. 120 million in 1976-77 are expected to go up to 150 million in 1977-78.

The traditional sericulture industry is being revitalised. e quantity of raw silk produced in the State during 4-75 was 705 quintais.

BLIC HEALTH: Main hospitals 2; general hospitals women's hospital 1; special type hospitals 8; (*i*) chest hospitals 2; (*ii*) children's hospitals 2; (*iii*) mental pitals 2; (*iv*) leprosy hospitals 2; district hospitals 8; -district hospitals 6; ayurvedic hospital 1; primary lth centres 82; sub-centres 242; allopathic pensaries 283; unani/ayurvedic dispensaries 365; aid centres 138; V. D. clinics 12; T. B. 12; leprosy control centres 4; surveillance on and treatment centres of leprosy 37; planning centres 94; family planning sub-centres 85; psychiatric clinics 2; no. of beds in hospitals: (*i*) state headquarters 2,775; (*ii*) district level 2,189; (*iii*) others (those run by private agencies, municipal corporations and corporate bodies) 246; total 5,210.

Staff: (*i*) Doctors 1,800; (*ii*) Dentists 96; (*iii*) Nurses 920; (*iv*) Lady Health Visitors 117; (*v*) Multi-purpose health workers 968; (*vi*) Mid-wives 112; & (*vii*) *Hakims* and *Vaids* 489.

Per capita expenditure on health: Rs. 18·36.

PRESS: Twenty-eight daily newspapers, over 100 weeklies and 13 fortnightlies are being published in Jammu and Kashmir.

(*a*) Srinagar — (Urdu) Khidmat, Aftab, Srinagar Times, Aaeena, Hamdard, Zamindar, Wullar, Navjeewan, Martand and Iqbal, Nawai-i-Subuh, Madar-i-Kashmir.

(*b*) Jammu — (English) Excelsior and Kashmir Times. (Urdu) Qaumi Awaz, Sandesh, Imarat, Sharda, Ujala, Advice, Waqt Sach, Raftar and Times of Cartoon.

GENERAL

Important Rivers: The Jhelum, the Sindh (Kashmir), The Tawi, the Chenab and the Ravi (Jammu).

Important Lakes: Dal Lake, Wullar, Mansbal, Nagin Lake (Kashmir), Surinsar, Mansar and Sanasar (Jammu).

Tourism: Fresh vistas of progress and promise have been opened up in tourism sector. In 1977, the Kashmir Valley and Ladakh attracted nearly 442,040 (387,817 Indians and 54,223 foreign) tourists against the previous peak of 325,000 tourists. The inflow of foreign visitors went up by 50 per cent in a single year. The shrine of Shri Vaishnodevi in Jammu drew more than 815,517 pilgrims, which meant an increase of more than 100,000 over the previous year.

A sum of Rs. 21·0 million is being spent for the development of tourism during the current financial year as against Rs. 6·54 million spent during 1975–76.

Forest Development: A rich variety of pine, fir, birch, hazel, wild oak, apple and beech grow here.

These forests are a regular haunt of lovers of sport and adventure who can find ibex, musk deer, wolf, fox, red bear, black bear, barasingha, pig etc. A variety of winged game such as duck, goose, chakor, monal pheasant, partridge and snipe is found in low forests, on swamps and banks of the lakes. Forests constitute about one-eighth of the total area and are a very important source of revenue.

The State has a forest area of over 21,080 sq. kms. Of this 7,477 sq. kms. are available for timber exploitation and the rest function chiefly as protective forests.

The export of timber during 1974-75 was 119,430 cubic metres and the total outturn of timber was 362,320 cubic metres. The value of timber was Rs. 205·449 million.

Water Supply: By the end of 1976-77, about 1,110 villages with a population of 1,120,700 have been covered with drinking water facilities. Of this the number of villages to be provided with this facility during 1976–77 is 153.

Annual Plan (1978-79): The outlay on the Annual Plan is Rs. 1,080 million against the last year's outlay of Rs. 96·8 million. Sector-wise allotments were: agriculture: Rs. 174·0 million; water supply programme: Rs. 93·1 million; Ravi project: Rs. 75·0 million; village and small-scale industries: Rs. 24·7 million; road development: Rs. 81·0 million.

Judiciary: The High Court sits in session at Srinagar during summer and at Jammu during winter. It has a Chief Justice and 4 other judges.

KARNATAKA STATE

CAPITAL: Bangalore. **Area:** 174·71 sq. kms.; **Population:** 1,653,779.

Area of State: 191,773 sq. kms. **Population of State:** 29,299,014. **Density:** 153 per sq. km. **Sex Ratio:** 957 females per 1,000 males. **Literacy:** 31·52 per cent.

Districts	Area in '000 sq. kms.	Population
Bangalore	8·0	3,365,515
Tumkur	10·6	1,627,721
Chitradurga	10·9	1,397,456
Kolar	8·2	1,516,646
Bellary	9·9	1,122,686
Mysore	11·9	2,077,238
South Kanara	8·4	1,939,315
Coorg	4·1	378,291
Hassan	6·8	1,102,370
Shimoga	10·5	1,301,485
Chikmagalur	7·2	736,647
Mandya	5·0	1,154,374
Belgaum	13·4	2,423,342
Bijapur	17·1	1,985,591
North Kanara	10·3	849,105
Dharwar	13·7	2,342,213
Gulbarga	16·2	1,739,220
Bidar	5·5	824,059
Raichur	14·0	1,415,740

The headquarters of the districts are of the same name except for the following districts where the name of the headquarters are given in the brackets: South Kanara (Mangalore); Coorg (Mercara); North Kanara (Karwar).

MAJOR CITIES (Over 100,000 population)

Name	Area sq. kms.	Population
Bangalore	174·71	1,653,779
Hubli-Dharwar	182·30	379,166
Mysore	37·30	355,685
Mangalore	45·43	215,122
Belgaum	34·84	213,872
Gulbarga	13·97	145,588
Bellary	27·71	125,183
Davangere	19·42	121,110
Bijapur	14·50	103,931
Shimoga	5·96	102,709
Bhadravati	12·21	101,358
Kolar Gold Fields	65·73	118,861

No. of Villages: Inhabited 26,826; uninhabited 2,707; total 29,533.

State Boundaries: The State is bound by Kolhapur, Sangli, Solapur, Osmanabad and Nanded districts of Maharashtra in the north, Medak, Hyderabad, Mahbubnagar, Kurnool, Anantapur and Chitoor districts of Andhra Pradesh in the east, Salem and Nilgiri districts of Tamil Nadu in the south-east, Cannanore district of Kerala in the south and Arabian Sea in the west.

State Language: Kannada.

Area under Land Utilisation in ('000) hectares (1975-76): Net area sown 10,306; area sown more than once 6.90; area under forests 36.07.

AGRICULTURE: Prospective for 1977-78.

Principal crops	Area (thousand hectares)	Produc (th
Rice	1,125	[illegible]
Ragi	1,000	[illegible]
Jowar	2,170	[illegible]
Maize	190	504
Bajra	510	275
Wheat	350	[illegible]
Minor Millets	400	195
Total cereals	**5,745**	**6,690**
Tur	300	175
Pulse	920	350
Gram	170	85
Total pulses	**1,390**	**610**
Total foodgrains	**7,135**	**7,300**
Commercial Crops:		
Groundnut	973	785
Other Oil-seeds	468	165
Total Oil-seeds	**1,441**	**950**
Sugarcane	115	10,400
Cotton	1,140	[illegible]
Tobacco	420	320

* Production of cotton in bales of 170 kgs.
** Production of sugarcane in terms of thousand canes.

Land Reforms: Ceiling per family: 4.047 hectares 'A' and 'B' class of land, 8.094 hectares of 'C' land and 16.187 of 'D' class land. Plantations are exemp

No person who has an annual income of Rs. 12,0 more from any non-agricultural source can acquire cultural land after March 1, 1974. From the same all tenanted lands have been transferred to the Govt. the traditional tenant-landlord relationship has snapped. No agricultural land can be sold for non-a cultural purposes.

Each taluka has a land tribunal. The tribunal conferring ownership on tenants and distributing sur lands to the landless.

Occupancy rights to tenants have been confirmed March 1978 in respect of 435,055 hectares of land State.

Irrigation — 1975: Net area irrigated 1,3 hectares; gross area irrigated 1,706,000 hect chapter on "Irrigation and Power" for further d

Power: The per capita power availability was 1 in 1975–76. Total installed capacity: 967,000 kws.; city generated: 5,391·0 million k.w.Hs.; towns and electrified: 17,000; pumpsets energised: 789,000.

MAJOR INDUSTRIES (1976-77)

Type of Industries	No. of factories existing	Prod in t
Iron and Steel	1	[illegible]
Cement	5	[illegible]
Sugar	14	[illegible]
Paper	6	[illegible]
Vanaspati	6	[illegible]
Soap	N.A.	[illegible]

Large and medium industries (1976): Total Rs. 4,500 million; employment: 0·20 million; factories: 600. (These figures exclude the G India sector.)

Sericulture is the most important of rural industries providing employment to about 2 million people.

Industrial Estates : No. of Government estates : 27.

Industrial Development Agencies : See chapter on "State Govt. Undertakings."

LABOUR : No. of Unions : There were 920 trade unions on register in 1976.

No. of Workers : Total no. of workers including farm labourers (1971 census) was 10·2 million.

Industrial Disputes (1973-74) (Latest figures not available).

Strikes : (*i*) No. of strikes 68 ; (*ii*) No. of workers involved 34,467 ; (*iii*) No. of man-days lost 278,146.

Lock-outs : (*i*) No. of lock-outs 20 ; (*ii*) No. of workers involved 11,239 ; (*iii*) Man-days lost 208,944.

Bonded Labour : The State Govt. promulgated an ordinance abolishing bonded labour on October 20, 1975.

EDUCATION (1976-77) : **No. of Schools :** Lower primary — 22,000 ; higher primary — 11,400 ; secondary — 2,326.

Enrolment : Standard I to IV — 3,400,000 ; standard V to VII—1,013,000 ; standard VIII and above—618,000 ; colleges — 172,250.

No. of Teachers : Lower primary — 35,000 ; higher primary —100,520 ; secondary — 25,000.

No. of Colleges : 264.

Technical Education : No. of engineering colleges : 18 ; intake 61,873; no. of polytechnics 26 and no. of women's polytechnics 3 ; intake in both 3,871.

Universities : Bangalore University, Bangalore 560001; Karnataka University, Dharwar 580003; University of Agricultural Sciences, Bangalore 560003 ; University of Mysore 570001 ; Indian Institute of Science, Bangalore 560012.

PUBLIC HEALTH (1975-76) : No. of hospitals : 212 ; no. of dispensaries : 1,193 ; beds in hospitals and dispensaries : 30,695 ; primary health centres : 448; no. of medical colleges : 11 ; students : 10,242.

COMMUNICATIONS : (1976–77) : Length of roads 39,496 kms. ; national highways 1,968 kms. ; state highways, major district roads and other district roads 29,672 kms. ; village roads 30,017 kms.

Total length of railway: 2,806 kms. including the Bangalore-Salem rail link. Broad gauge : 546 kms. ; metre gauge 2,107 kms. ; narrow gauge 153 kilometres.

The 189·2 kms. Hassan-Mangalore rail link has been included under the Central Sector.

Registered motor vehicles : 224,711.

No. of airports : 3 (Bangalore, Belgaum and Mangalore) ; no. of airstrips : 4.

Post and Telegraphs (1976-77) : No. of post offices 8,584 ; telegraph offices 1,675 ; telephone exchanges 392 ; telephones in use 103,000.

Co-operation : No. of co-op. societies : 23,000 ; agricultural co-op. societies : 9,320 ; membership : 37·5 million ; loans advanced : Rs. 793·1 million.

No. of joint stock companies : 1,920 ; regulated markets : 236.

PRESS (Major daily newspapers) : *English :* Deccan Herald, Bangalore 560001; Hindu, Bangalore 560001 ; Indian Express, Bangalore 560001 ; *Kannada :* Prajavani, Bangalore 560001 ; Kannada Prabha, Bangalore 560001 ; Samyukta Karnataka, Bangalore 560025 — and Hubli ; Nav Bharat, Mangalore 575003 ; Janavani, Bangalore 560001 ; Udayavani, Udipi 576101 ; Vishwavani, Hubli 580020.

GENERAL : Rivers : There are two great river systems in Karnataka : that of the Krishna in the north and the Cauvery in the south. The only streams flowing west to the Arabian sea are those in the north-west, which, uniting in the Sharavati, hurl themselves down the Ghats in the magnificent Gersoppa or Jog falls.

Rivers that flow into the Krishna : the Tunga, the Bhadra, both these uniting in the Tungabhadra and the Hagari (or Vedavati).

Rivers that flow into the Cauvery : the Hemavati, the Lokapavani, the Shenisha, the Arkavati, the Lakshmantirtha, the Kabbani or Kapila and the Honnuhole or Suvarnavati.

Other Rivers : The Varada, the Kalinadi, the Gangavali, the Tadri, the Netravati, the Kumaradhari, the Gurpur, the Swarnanadi, the Sitanadi, the Malprabha, the Dharma, the Don, the Bhima and the Ghatprabha.

Housing : As on March 1978, 785,000 building sites had been distributed. Over 83,700 houses have been completed under the People's Housing Programme.

Minerals : Gold, silver, iron ore, chromite, china clay, limestones, corundum, gamet, emery, asbestos, bauxite, fuller's earth, quartz, ochre, fellspar and silica.

Forests : Forests occupy 15·3 per cent land area divided into evergreen, semi-green, moist deciduous, dry deciduous, scrub and thorny species.

Annual Plan : 1978-79 : Rs. 3,320 million.

KERALA STATE

CAPITAL : Trivandrum. **Area :** 44·52 sq. kms. ; **Population :** 409,627.

Area of the State : 38,855 sq. kms. ; **Population of the State :** 21,347,375 ; **Density :** 549 per sq. km ; **Sex Ratio :** 1,016 females per 1,000 males ; **Literacy :** 60·42 per cent.

No. of Talukas : 57 ; revenue villages : 1,334 ; municipal towns : 36 ; corporations : 3 ; panchayats : 990.

State Boundaries : The State is surrounded by South Kanara, Mercara and Mysore districts of Karnataka State in the north, Nilgiris, Coimbatore, Madurai, Ramanathapuram, Tirunelveli and Kanyakumari districts of Tamil Nadu in the east and south ; and by the Arabian Sea in the west.

State Language : Malayalam.

AGRICULTURE : The per capita extent of cultivated area is 0·9 hectares (1975-76).

Food Crops : Rice, jowar, ragi, tur, sugarcane, pepper, chillis, ginger, turmeric, cardamom, arecanut, mango, citrus fruits, banana, cashewnut, tapioca, sweet potato and onion.

Districts			Area in sq. kms.	Population (million)
Trivandrum	..	..	2,192	2·19
Quilon ..	..	..	4,623	2·41
Alleppey ..	..	..	1,884	2·12
Kottayam*	..	.	2,195	1·53
Ernakulam*	..	..	2,379	2·16
Trichur ..	..	..	3,032	2·12
Palghat ..	..	..	4,400	1·68
Malappuram	..	..	3,638	1·85
Kozhikode	..	..	3,729	2·10
Cannanore	..	..	5,706	2·36
Idukki* ..	..	..	5,127	0·76

Major Cities : (Over 100,000 population)

Name			Area in sq. kms.	Population
Cochin ..	..	..	82·00**	439,066**
Trivandrum	..	..	44·52	409,627
Calicut ..	..	..	30·61	333,979
Alleppey ..	..	..	46·62	160,166
Quilon ..	..	..	16·34	124,208

Main Crops are paddy, coconut, tapioca, arecanut, pepper, turmeric, ginger, sugar, tea, coffee, rubber etc.

No. of Plantations : rubber: 133,552; tea: 4,124 and coffee : 22,487.

Dairying : At present there are six dairy plants in operation. The location, capacity and daily production respectively are : Calicut — 6,000 litres, 8,000 litres ; Trivandrum — 20,000 litres, 22,000 litres ; Ernakulam — 10,000 litres, 13,000 litres; Kottayam — 6,000 litres, 6,000 litres; Palghat 6,000 litres, 3,000 litres; and Alleppey — 3,000 litres, 4,000 litres.

Poultry Scheme: With a view to developing poultry, 419,000 chicks were distributed during 1976-77 compared to 111,000 in 1975-76. About 2·5 million eggs were produced in the departmental farm during the year against 1·7 million in the previous year. Egg production was about 1,040 million in 1976-77.

Fisheries : See chapter on Fisheries.

Forests (1977) : Forests occupy about 9,400 sq. km. which forms 24 per cent of the geographical area. Man-made forests cover 137,718 hectares. This consists mainly of teak (68,190 hectares), eucalyptus (34,548 hectares), softwood (21,846 hectares), cashew (3,581 hectares) and miscellaneous species (9,553 hectares).

INDUSTRIES : Name of different industries and number of units in 1976 are : Oil 326, tea 109, cashew 272, beedi 32, cotton textiles 632, coir 271, saw mills 693, plywood, splints and veneers 292, printing 474, rubber 466, chemicals and chemical products 128, matches 101, soaps 42, general engineering 229, tiles 286, automobile repairing 393, other industries 2,178, total number of industries : 6,921.

Joint Stock Companies : As many as 88 private companies and 10 public companies were newly registered in 1975-76. The total number of companies as on 31-3-1976 was 1,430. Of these 445 were public companies and 983 private companies.

A new packing paper manufacturing factory is be established at Kullakadavu in Alleppey Dist. under pr sector. The cost is estimated at Rs. 90 million and factory is expected to produce 15,000 tonnes of pulp 30,000 tonnes of wrapping paper annually.

Handloom Industry: Handloom is a major which provides sustenance to about 270,000 pe In 1976 there were 21,681 weaving househol 2,057 other weaving establishments. There were looms in the State. Production in the handloom declined considerably in 1976-77 compared to pr year. In the co-operative sector the production decl from 23·6 million metres in 1975-76 to 21·9 million me in 1976-77. The production in the private sector decreased and is estimated to be 65·0 million cloth worth Rs. 250 million.

Industrial Development Agencies (See chapter 'State Govt. Undertakings').

Labour (1977) : No. of registered factories 7,125 ; no working (registered) factories : 6,921 ; no. of work factories which submitted their annual returns : average daily employment in the working factories mitting returns : 226,357 ; total average daily employm (estimated) in all the registered working factories : no. of accidents (including fatal cases) in registered tories : 5,319 ; no. of fatal accidents : 10.

Total employed : 776,593 ; employed in industr 224,436 ; employed in agriculture : 87,328 ; emplo otherwise : 464,829.

Total no. of work seekers on live register of employm exchange (at the end of Dec. 1975) : 776,593 ; total ployment in public and private sectors (30-6-19 782,502 (public sector 368,132 and private 414,368).

EDUCATION : Particulars showing the number students in schools run by Government and priv bodies for 1977–78 are as follows :

Number of students under instruction 5·49 million

Distribution of Institutions : High schools (incl ing post basic and Anglo-Indian schools) 1,682 ; primary schools 2,729 ; lower primary schools nursery schools 175 ; basic training schools 91. training institutes 2 ; language teachers training c

Colleges and other educational institutions with of students respectively (1976-77) : Teachers' t schools: 105 ; — ; polytechnics : 14 ; 2,036† ; wom technics : 3 ; 310 ; industrial training institutes : junior technical schools : 21 ; 1,230 ; arts and colleges : 130 ; 176,142 ; engineering colleges : 6 ; medical colleges : 4 ; 2,294 ; ayurveda colleges : agricultural college : 1 ; 200 ; veterinary coll 210 ; law colleges : 3 ; 899 ; teachers' training 19 ; 2,008 ; music college : 3 ; 506 ; music acad — ; physical education colleges : 2 ; — ; per capita ture on education : Rs. 39·10.

Universities : Kerala Agricultural University, nuthi, Trichur : University of Kerala, Trivand versity of Calicut, Calicut ; Cochin University, T kara, Cochin.

PUBLIC HEALTH (Figures as on 1-4-1977) : ment hospitals : 138 ; beds 22,833 ; primary centres : 163 ; beds 1,657 ; M. C. H. Cent beds 20 ; T.B. clinics : 20 ; beds 390 ; dispensar beds 1,283 ; mobile dental hospital : 1 ; tutions : 9 ; beds 1,496.

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* Provisional. ** Combined area and population for Cochin-Ernakulam-Alwaye Town

† Includes part-time diploma course students. ‡ Includes post-graduate degree students and part-time degree course students.

Per capita expenditure on health services during 1975-76 : Rs. 14·75.

COMMUNICATIONS (As on March 31, 1977) : Goods vehicles : 17,165 ; stage carriages : 8,251 ; taxi cabs : 12,257 ; motor cars : 41,875 ; jeeps : 6,308 ; motor cycles : 32,031 ; auto-rickshaws : 4,492 ; tractor/trailers : 1,722 ; others : 4,692 ; total : 129,193.

State Transport (as on Dec. 31, 1977) : No. of buses : 2,601 ; no. of lorries : 16 ; other vehicles : 96 ; no. of routes : 3,350 ; route kilometrage : 146,073 ; employees : 23,804 ; average number of passengers transported per day by the State Transport : 1·46 million.

Roads: The total road length in Kerala (including the roads under the Panchayats) as on 1-4-1977 is estimated at 81,584 kms. National Highway 837 kms., State Highways 2,028 kms. Major District roads 5,324 kms. Other District roads 6,666 kms.

Railways : The total length of railway line is 887·00 kms. of which 774 kms. are on the broad gauge system and 113 kms. on the metre gauge system.

PRESS

Leading Dailies (1977) : In Malayalam with their circulation : Deepika, Kottayam 57,132 ; Desabhimani, Kozhikode and Cochin 44,916 ; Express, Trichur 37,663 ; Janayugam, Quilon and Kozhikode (not available) ; Kerala Kaumudi, Trivandrum 116,920 ; Malayala Manorama, Kottayam and Kozhikode 343,379 ; Mathrubhumi, Kozhikode & Cochin 276,127.

GENERAL

Annual Plan: Plan allocation for 1978–79 is Rs. 2,084·86 million. Agriculture and allied services : Rs. 393·26 million ; co-operation : Rs. 25·39 million ; water and power development : Rs. 798·30 million ; industry and minerals : Rs. 214·47 million ; transport and communications : Rs. 154·27 million; social and community services : Rs. 493·20 million ; economic services : Rs. 32·82 million ; general services : Rs. 27·50 million.

Rivers: The rivers provide an extensive system of inland waterways of great commercial importance. The longest are Bharatapuzha, 267 kms. and Periyar, 228 kms.

Other chief rivers are the Valapattanam, Chaliyar, Kadalundi, Chalakudi, Pampa, Achan Koil and Kallada.

Fresh Water Lakes : Enamakkal, Manakkodi, Vellayani, Sashankotta and Vembanad.

Mineral Development: A detailed investigation of mineral resources is being made for graphite, lime-shell, lime stone, magnesite, clays and brick and tile clays.

The Kerala Mineral Exploration and Development Project established with the assistance of U.N.D.P. started functioning from April, 1977.

LAKSHADWEEP

(Union Territory)

THE Lakshadweep group of coral islands lying between 8° and 12° north latitude and 71° and 74° east longitude in the Arabian sea, 320 kms. off the west coast of Kerala constitute the smallest Union Territory.

Headquarters : Kavaratti island. **Area :** 3·6 sq. kms. ; **Total Area of the Territory :** 32 sq. kms. ; **Total Population :** 31,810 (Males : 16,078 ; Females : 15,732) ; **Decennial population growth rate 1961-71 :** 31·95 per cent ; **Density :** 994 per sq. km.; **Sex ratio :** 978 females for 1,000 males ; **Literacy :** 43·66 per cent.

Total No. of Islands : Inhabited : 10 ; uninhabited : 17. The area and population (1971 census) of the inhabited islands is as follows :

Island	Area sq. kms.	Population
Agatti	2·7	3,155
Amini	2·6	4,542
Androth	4·8	5,425
Bitra	0·1	112
Chetlat	1·0	1,200
Kadmat	3·1	2,416
Kalpeni	2·3	3,152
Kavaratti	3·6	4,420
Kiltan	1·6	2,046
Minicoy	4·4	5,342
Total	32·0*	31,810

* Includes area of uninhabited islands.

Administration : The head of the administration is the Administrator, appointed by the Union President.

The Collector-cum-Development Commissioner is in overall charge of the developmental activities and law and order.

The entire Territory has been divided into 4 tehsils, each under a Tehsildar, with headquarters at Minicoy, Androth, Kavaratti and Amini islands.

Judicial Administration : The District and Sessions judge, Calicut, Kerala has jurisdiction over the islands.

AGRICULTURE : Coconut is the main crop. The production during 1976-77 was 22·2 million from a total cultivated area of 2,782 hectares.

Fruits like banana, papaya, guava, sopota and some citrus varieties and drum-stick, chillies, tomato, brinjal, sweet potatoes are grown as inter-crops.

Dairy : There are two dairy units, one at Kavaratti and another at Minicoy.

Poultry : There are six units one each at Kavaratti, Androth, Minicoy, Kadmat, Kalpeni and Agatti.

Fisheries : There are 142 mechanised boats of which 109 were issued to fishermen on a subsidised hire-purchase system.

A unit for canning tuna fish was set up at Minicoy in 1969. The number of cans produced during 1976–77 was 92,000. An ice factory and a cold storage were also constructed at Minicoy.

Electricity : 9 out of 10 inhabited islands have been electrified. The total installed capacity of the power houses is 1,141 kw. and length of distribution line is 88 kms.

INDUSTRIES : Coir making, oil extracting, handloom, mat weaving, hosiery knitting and canning are some of the small industries.

One handicrafts co-operative society and one handicraft training centre function at Kavaratti. Two coconut husk defibring units — one each at Androth and Kadmat — are also operating.

EDUCATION: There are 42 schools including 7 high schools with 9,947 students and 398 teachers. To encourage education of girls, separate and free facilities have been provided. On July 15, 1972, the Jawaharlal Nehru College, affiliated to Calicut University, Kerala, was inaugurated.

PUBLIC HEALTH : There are 7 primary health centres and 2 hospitals at Kavaratti and Minicoy and one first aid centre at Bitra. One of the achievements was the control of communicable diseases like leprosy and filaria. There are health inspectors in all the islands and medical aid is free. Acute cases are brought to the mainland and given free treatment. The total bed-strength of all the hospitals and primary centres is 120 which comes to 4 per 1,000 population.

COMMUNICATIONS : The motor vessel of the Administration, M. V. 'Laccadives' was launched in 1968. Since 1970 the Shipping Corporation of India has started running an all-weather ship, M. V. '
for the Administration.

One motor launch, M. L. 'Bitra', maintains
services.

There are 10 post offices, 9 wireless stations
phone exchanges. A radio-telephone service
Kavaratti and the mainland was established in 1972

GENERAL

Annual Plan (1977-78): The planning
tentatively fixed Rs. 16·80 million for the
against Rs. 13·00 million for the previous year.

Tourism : Bangaram an uninhabited island has
developed into a tourist resort with facilities
sports. A Consortium consisting of Air India,
Corporation of India, Hotel Corporation of
Travel Corporation of India are bringing foreign
for a ten-day stay during the fair season. The
accommodation for 32.

MADHYA PRADESH STATE

CAPITAL: Bhopal; **Area :** 71·20 sq. kms.; **Population :** 392,077.

Area of the State : 443,459 sq. kms.; **Population of the State :** 41,654,119; **Literacy :** 22·12 per cent; **Sex Ratio :** 943 Females per 1,000 Males; **Density :** 94 per sq. km.

Districts : The headquarters of the districts are the towns of the same name except Surguja which has Ambikapur as its headquarters.

Total No. of Districts : 45; No. of Tehsils : 190; No. of Municipal Corporations : 6; No. of Municipalities : 175; No. of Notified areas : 18.

Districts	Area in sq. kms.	Population
Balaghat	9,200	980,161
Bastar	39,100	1,514,400
Betul	10,100	736,482
Bhind	4,500	792,093
Bhopal	2,763·4	572,169
Bilaspur	19,900	2,441,212
Chhatarpur	8,700	712,296
Chhindwara	11,800	990,341
Damoh	7,300	573,201
Datia	2,000	255,319
Dewas	7,000	593,798
Dhar	8,100	841,495
Durg	19,700	2,461,525
Guna	11,100	783,541
Gwalior	5,200	858,001
Hoshangabad	10,000	805,457
Indore	3,900	1,036,332
Jabalpur	10.200	1,686,165
Jhabua	6,800	667,944
Khandwa (East Nimar)	10,700	879,813
Khargaon (West Nimar)	13,400	1,283,170
Mandla	13,300	874,762
Mandsaur	10,300	961,526
Morena	11,600	984,461
Narsimhapur	5,100	519,565
Panna	7,100	428,121
Raigarh	12,900	1,277,954

Districts	Area in sq. kms.	Populat
Raipur	21,251	2,613,5
Raisen	8,400	552,
Rajgarh	6,200	645,
Rajnandgaon	11,003	992,
Ratlam	4,900	625,
Rewa	6,300	977,
Satna	7,500	911,
Saugor	10,200	1,062,
Sehore	6,272	512,
Seoni	8,800	670,
Shajapur	6,200	677,
Shahdol	14,000	1,029,
Shivpuri	10,300	676,
Sidhi	10,500	777,
Surguja	22,300	1,321,
Tikamgarh	5,100	568,
Ujjain	6,100	862,
Vidisha	7,400	656,

Major Cities (Over 100,000 population)

Name	Area in sq. kms.	Populat
Indore	55·84	[illegible]
Jabalpur	132·09	[illegible]
Gwalior	65·00	[illegible]
Bhopal	71·29	[illegible]
Durg-Bhilainagar ..	103·90	[illegible]
Ujjain	17·48	[illegible]
Raipur	25·17	[illegible]
Saugor	33·74	[illegible]
Bilaspur	31·34	[illegible]
Ratlam	12·95	[illegible]
Burhanpur	10·46	[illegible]

State Boundaries: The State is bound by
in the north, Bihar in the north-east,
Maharashtra in the south and Gujarat and
the west.

ate Language : Hindi. Main languages spoken in the ate are: Hindi, Urdu, Marathi, Rajasthani, Gujarati, ndhi and English.

GRICULTURE : About 18·5 million hectares are der cultivation and an additional 2·0 million hectares e under double cropping. The total annual value of the ricultural produce at the current prices is estimated to around Rs. 14,500 million. 86 per cent of the population classified as rural.

In 1977–78, the production of foodgrains was estimated be around 12·3 million tonnes.

ajor Crops : (1977–78 Estimate — in '000 tonnes): ce: 4,395; Jowar: 1,345; Other Kharif: 1,080; heat: 2,800; Kharif Pulses: 670; Gram (Rabi pulses): 500; Other food crops: 470; Oilseeds: 617; Cotton (in les): 291; Sugarcane: 2,574.

e also chapter on "Food & Agriculture".

igh Yielding Varieties Programme : In the year 76–77 an area of 2·6 million hectares was covered under e H.Y.V.P. and in the year 1977–78, 3·4 million hectares ere brought under this programme, thus increasing the verage by about 31 per cent. The target of high yielding rieties for the year 1978–79 is 3·48 million hectares.

ant Protection : An area of 6·2 million hectares was eated with insecticides and fungicides to protect the crop om different insects and fungal attacks, during 1977–78.

tensive Extension and Research Project : World ank has sanctioned an Intensive Extension and Rearch Project with the financial outlay of about Rs. 187·7 illion. The project has already started since 1977–78 the first instance in five districts, namely Bhind, Morena, hore, Balaghat and Barna Command of Raisen strict.

nall Farmers Development Agency : In the year 71–72, five districts were selected for establishment of F.D.As.

Now SFDAs are functioning in the following districts: .: Chhindwara, Bilaspur, Ujjain, Bhopal, Durg, Raisen, nore, Satna, Shahdol, Surguja, Rajnandgaon, Mandsaur, balpur, Sagar, Raipur.

sistance to Unemployed Agricultural Graduates: ricultural graduates, coming out of the university are suaded to establish their own farms. For this purpose vernment allot them and also arrange for a loan of . 10,000 to Rs. 15,000.

nd Ceiling : Various categories have been fixed ging from 4·04 hectares to 63·71 hectares.

The ceiling law on agricultural land has been revised since Jan. 1, 1973 to Dec. 31, 1977, 519,559 hectares cultivable Govt. land has been allotted to different up landless people. On Dec. 31, 1977 the area of land ilable for allotment was 304,127 hectares.

ests : *Protected* 80,045 sq. kms.; *reserved* 84,227 sq. .; *non-classified* 667 kms.; total 164,939 sq. kms.

arieties of forests : sagon 31,346 sq. kms.; sal 37,898 s.; mixed or and other forests 95,695 sq. kms.

uring 1976–77 an amount of Rs. 17·4 million was spent he implementation of forestry and soil conservation. cluded plantation of rich forests on 3,313 hectares, tation of quick-growing varieties of trees on 912 ares, renovation of forests on 578 hectares, reclamation vine land of 1,021 hectares, completion of buildings roads and implementation of Tiger Project, etc.

In 1977-78, Rs. 28·4 million were proposed to be spent on these works including State's contribution of Rs. 8·3 million to the Forest Development Corporation and implementation of Rs. 2·78 million Centrally Sponsored Tiger Project. Provision for 1978-79 under development scheme was Rs. 36·23 million from the State fund and Rs. 22·0 million from Centre.

Under the Tribal Sub-Plan schemes, Rs. 14·9 million was proposed to be spent from State Plan funds and Rs. 22·0 million from Centre.

Forest resources surveys are being conducted in a planned manner. The work was taken up in the eastern part of the State.

Livestock Statistics (1976) : Cattle 26·5 million; buffaloes: 6·00 million; sheep and goats: 7·17 million; average milk yield per buffalo: 326·6 kgs.; per cow 76·2 kgs.; poultry population: 6·7 million; average milk production of cow per annum: 176 kgs.

There are 585 veterinary hospitals, 1,308 dispensaries and 45 mobile units, 18 intensive key village blocks, 4 bull rearing farms, 8 cattle breeding farms, 227 artificial insemination centres, 844 key village units, 376 cattle breeding extension units, 12 poultry farms, 19 sheep farms and centres, 11 *gosadans*, 7 intensive cattle development projects, 66 quarantine check posts etc, for rinderpest and 13 small farmers animal husbandry units in the State. Besides, veterinary institutions are working to improve the breeding facilities of 1·8 million breedable cattle.

The State has one Institute of Biological Products at Mhow, producing veterinary vaccine. This institute produced 18·389 million doses of vaccine during 1974-75.

Veterinary institutions of the State carried out 14·45 million vaccinations during 1974–75 against various cattle diseases.

Irrigation and Power Projects : See main chapter on 'Irrigation and Power'.

INDUSTRIES : Main medium and large-scale industries with their locations:

Cotton textiles :—Indore 7, Gwalior 2, Ujjain 4, Mandsaur 1, Dewas 1, Ratlam 1, Bhopal 1, Burhanpur 2, Rajnandgaon 1, Bilaspur 1, Khandwa 1, Sanavad 1.

Art silk fabrics : Indore, Gwalior, Nagda; *staple fabric yarn :* Nagda; *crimped yarn :* Dewas; *shoddy yarn :* Dewas; *cement :* Kymore, Banmore, Satna, Jamul, Mandhar, Tilda; *coal :* Bilaspur 4, Betul 1, Chhindwara 10, Surguja 11, Sidhi 1, Shahdol 8.

Refractories & firebricks : Jabalpur, Katni Niwas-Katni; *gun carriage factory :* Jabalpur; *ordnance factory :* Katni; *asbestos cement :* Kymore; *sugar :* Jaora, Dalauda, Mahidpur, Dabra, Sehore, Kailaras; *newsprint paper :* Nepanagar; *currency and bank note press :* Hoshangabad, Dewas; *strawboard and paper :* Bhopal, Ratlam, Vidisha, Sehore, Umaria, Amlai; *particle anchor board :* Itarsi, Bhopal; *heavy electrical equipment :* Bhopal; *electrical industries :* Bhopal, Gwalior, Rewa, Jabalpur, Satna; *jute mill :* Raigarh; *flour mills :* Indore, Bhopal, Ganj-Basoda, Raipur; *vegetable oil including sol. extraction units :* Dewas, Khandwa, Sehore, Ganj-Basoda, Bilaspur, Raipur, Indore, Ujjain; *iron & steel project :* Bhilai, Raipur; *mini steel plants :* Indore, Jabalpur, Raipur, Dewas, Ratlam; *Govt. Post & telegraph workshop :* Jabalpur; *Railway workshop :* Raipur; *mining of iron ore :* Bastar; *P.V.C. cables :* Satna; *textile machinery :* Gwalior; *power driven pumps :* Dewas; *biscuits :* Gwalior; *bakery :* Indore; *steel casting foundry & re-rolling mills :* Indore, Kumhari, Dewas, Ujjain, Gwalior, Bangrod, Bhilai;

sulphuric acid : Nagda, Kumhari, Bhilai ; *pesticide formulation* : Bhopal ; *carbon-di-sulphide and anhydrous sodium sulphate* : Nagda ; *compressed oxygen & dissolved acetylene* : Bhopal, Gwalior, Indore, Jabalpur, Bilaspur, Kumhari ; *bichromate of soda chromic acid* : Bhilai ; *moped*: Gwalior ; *steel forging* : Bhopal ; *plates, round bars* : Indore ; *mild steel and G.I. wire* : Indore, Durg, Ratlam ; *caustic soda* : Amlai, Nagda, Nepanagar ; *synthetics* : Ujjain ; *alumina and aluminium* ; Korba ; *beer* : Bhopal, Indore ; *drugs & pharmaceuticals* : Ratlam, Indore ; *engine valves* : Bhopal ; *plastics* : Indore ; *midget electrodes* : Indore, Raipur ; *dry batteries* : Bhopal ; *leather garments*: Dewas ; *glue & gelatine* : Bhopal, Jabalpur ; *formaldehyde* : Indore ; *graphite electrodes* : Mandideep ; *hydrochloric acid* : Ratlam ; *tungsten filament* : Indore.

Cottage Industries : Main cottage industries with location in brackets :—Handlooms (33,069 looms) spread all over the State but best developed at Chanderi and Maheshwar ; power-looms (11,000) ; silk (Raigarh, Champa, Bilaspur, Surguja) ; mulberry (Indore, Jhabua, Depalpur, Dhar) ; fine sarees (Chanderi, Maheshwar, Burhanpur) ; woodwork and lacquerware (Sheopur, Sabalgarh, Budhni, Rewa, Gwalior) ; wooden toys (Rewa, Bhopal, Gwalior, Ratlam) ; softstone (Jabalpur, Chhatarpur) ; lac (Seoni, Raipur, Bilaspur, Umeria and Rewa) ; saw milling (Betul, Bhopal, Balaghat, Bilaspur, Raipur, Indore, Jabalpur, Saugor and Mandla) ; brassware (Balaghat, Chhindwara, Indore, Gwalior, Raipur and Chhatarpur) ; textile hand printing (Ujjain, Mandla, Morena, Indore, Hoshangabad) ; diamond cutting and polishing (Panna) ; papier mache (Gwalior, Ujjain, Indore) ; zari embroidery (Bhopal) ; art metalware (Bastar, Betul, Hoshangabad, Satna, Mandla) ; leather toys (Indore).

Industrial Estates : There is a network of industrial estates in the following places : Indore, Gwalior, Raipur, Bhopal, Jabalpur, Bilaspur, Saugor, Ratlam, Katni, Burhanpur, Satna, Vidisha, Guna, Shahdol, Durg, Rajnandgaon, Bhilai, and Ujjain.

Besides 29 semi-urban industrial estates and 31 rural work sheds have also been constructed in the State.

Industrial Development Agencies

(See chapter on 'State Govt. Undertakings').

LABOUR

Particulars	Year	
	1976	1977
No. of working factories ..	5,115	5,315
No. of workers..	311,651	316,484
No. of mandays lost due to industrial disputes (Pub. Sector)	10,425	145,973
No. of industrial disputes (Pub. Sector)	3	33
No. of workers involved (Pub. Sector)	6,903	49,451
No. of mandays lost due to industrial disputes (Pvt. Sector)	7,373	89,780
No. of industrial disputes (Pvt. Sector)	39	57
No. of workers involved (Pvt. Sector)	3,768	18,325

Panchayats and Social Welfare : The State Panchayats Act envisages a three-tier system of panchayats viz. gram panchayats at village level, janpad panchay at block level and zilla panchayats at district lev The gram panchayats have been relimited now and th are 16,227 gram panchayats and 390 janpad panchay

For the administration of justice 2,373 nyaya panc yats were formed in the State.

Social Welfare : The Directorate runs 57 departmen institutions in the field of women and child welfare, soc and moral hygiene, social defence and welfare of physically handicapped and after-care services. About 4 institutions are run by non-official agencies. Grants-in to the tune of Rs. 4·6 million are given annually various institutions and individual beneficiaries.

An independent Directorate of Youth Welfare is form for sports and youth welfare activities for youths outschools and colleges.

Social Education : Adult literacy classes are run by gram panchayats, municipalities and non-official agen for which they receive grants-in-aid. Besides this departmental gram sevikas also run literacy classes women in the rural areas. The scheme of farmers functio literacy classes is being run in seven districts. 12,809 lib ries and 3,050 reading rooms are maintained by the gr panchayat at village level. Education through enterta ment is provided by 26 Kalapathak parties and 45 cine units. There are 6,620 radio centres in the State. 160 vision sets have been installed under Territorial Televis Transmission system and the programme of educat is conducted in the Chhattisgarh area.

Nutrition Programme : Special nutrition program is conducted in the slum areas of 19 cities for the benef children below six, pregnant women and lactating mot Applied nutrition programme is being impleme in rural areas of 142 blocks.

EDUCATION (1975-76)

Type of schools	No. of institutions	Enrolment		No. of traine teache
		Boys	Girls	
Higher Sec. Schools ..	2,027	463,666	166,067	23,8
Middle/Sr. Basic Schools ..	8,530	825,185	288,775	38,4
Primary/Jr. Basic Schools	49,060	2,417,108	1,131,271	[illegible]
Pre-Primary Schools ..	414	14,127	11,894	4
Sub-Schools ..	2,261	47,375	22,161	
Total	62,292	3,749,459	1,620,168	146,1

Colleges : The following are the category-wise of colleges :—Universities : 10 ; arts colleges : 89 ; colleges : 5; home science colleges : 2; agriculture 7 ; commerce colleges : 7 , music colleges : 3 ; colleges : 6 ; law colleges : 22 ; medical college dentistry college : 1 ; nursing college : 1 ; colleges : 2 ; physical education : 2 ; social colleges of education : 11 ; university college of 1 ; sanskrit colleges : 8.

Technical Education : Pre-vocational training 6 ; secondary technical schools : 14 ; fine arts 7 ; Kala Niketan 1 ; polytechnics 21 ; leges : 9 ; Govt. women's polytechnic 1.

Universities : With No. of Students.

Ravi Shankar Vishwavidyalaya, Raipur 22,619 ; Rao Vishwavidyalaya, Gwalior [illegible] ; Vikram vidyalaya, Ujjain 30,306 ; Awadesh Pratap Singh Vishwavidyalaya, Rewa 17,351 ; Indore Vishwavidyalaya, Indore 16,870 ; Jabalpur Vishwavidyalaya, Jabalpur 16,874 ; Saugor Vishwavidyalaya, Saugor 3,673 ; Jawaharlal Nehru Krishi Vishwavidyalaya, Jabalpur N. A. ; Bhopal Vishwavidyalaya, Bhopal N.A. ; Indira Sangeet Vishwavidyalaya, Khairagarh 1,669.

PUBLIC HEALTH (1975) : No. of hospitals & dispensaries 761 ; no. of beds 16,809 ; no. of allopathic hospitals 174 ; no. of primary health centres 465 ; no. of T.B. hospitals & T.B. sanatoria 7 ; no. of leprosy homes and hospitals 8 ; no. of mental hospitals 2 ; no. of medical colleges : 6 ; dental college : 1 ; no. of doctors (Regd.) : 6,474 ; no. of nurses, *dais*, midwives and health visitors (Regd.) : 16,270.

Total No. of patients treated in the State during 1976 : 651,889 (indoor) ; 18·00 million (outdoor).

COMMUNICATIONS (As on 31st March, 1978) : The M.P. State Road Transport Corporation (Habibgunj, Bhopal) operates its services on 1,170 routes including 138 inter-State, 49 night services and 7 de luxe services, 2,289 buses serving on an average 433,013 passengers per day, run 409,000 kms. Average daily income : 653,000 ; Staff : 15,400.

No. of buses : 7,712 ; total no. of vehicles in the State : 126,127.

Roads (1975-76): Surfaced: 40,707 kms.; unsurfaced: 12,738 kms. ; total: 53,445 kms.

Length of railway lines : 5,461·3 kms.

Press (1977): Leading dailies, their places of publication and circulation figures :

Hindi : Nava Bharat, Indore/Bhopal/Raipur/Jabalpur, 80,727 ; Nai Dunia, Indore, 100,180 Deshabandhu-Jabalpur/Raipur/Bhopal, 19,769 ; Yugadharma, Jabalpur/Raipur, Nagpur, 18,296 ; Swadesh, Indore/Gwalior, 13,940; Naveen Dunia, Jabalpur, 13,988.

English : Hitavada, Bhopal, Raipur, N.A. ; M.P. Chronicle, Bhopal/Raipur, N.A.

GENERAL

Annual Plan : The total Plan outlay for 1978–79 is Rs. 4,133·9 million — an all-time high for Madhya Pradesh.

Agriculture and allied services have been allocated Rs. 643·7 million ; major & medium irrigation and flood control : Rs. 820·0 million ; electricity : 1,750·0 million ; co-operation Rs. 63·1 million ; roads, road transport and tourism : Rs. 193·5 million ; industry and minerals Rs. 74·8 million ; and social and community services Rs. 576·9 million ; other services : Rs. 11·9 million.

Important Rivers : The Narmada, The Mahanadi, The Tapti.

Minor Rivers : The Chambal, The Kshipra, The Betwa, The Ken, The Sone, The Indravati.

MAHARASHTRA STATE

CAPITAL : Greater Bombay. **Area :** 603·0 sq. kms.; **Population :** 5,970,575.

Area of the State : 307,762·0 sq. kms. **Population of the State :** 50,412,235. **Density :** 164 per sq. km. ; **Sex Ratio:** 930 females per 1,000 males. **Literacy :** 39·18 per cent.

Districts : 26 (232 tehsils excluding 3 tehsils in Gr. Bombay Dist., 225 Municipal towns). The names of the districts with headquarters in brackets, area in square kilometres and population, is as follows :—

Greater Bombay (Bombay), 603·0, 5,970,575 ; Thane (Thane), 9,553·0, 2,281,664 ; Kulaba (Alibag), 7,198, 1,263,003 ; Ratnagiri (Ratnagiri), 13,040, 1,990,583 ; Nasik (Nasik), 15,582, 2,369,221 ; Dhule (Dhule), 13,143, 1,662,181 ; Ahmadnagar (Ahmadnagar), 17,035, 2,269,117 ; Pune (Pune), 15,640, 3,178,029 ; Satara (Satara), 10,492, 1,727,376 ; Sangli (Sangli), 8,563, 1,539,820 ; Kolhapur (Kolhapur), 8,059, 2,048,049 ; Solapur (Solapur), 15,021, 2,253,840 ; Jalgaon (Jalgaon), 11,771, 2,123,121 ; Aurangabad (Aurangabad), 16,200, 1,971,006 ; Parbhani (Parbhani), 12,489, 1,506,771 ; Bhir (Bhir), 11,227, 1,286,121 ; Osmanabad (Osmanabad), 14,117, 1,896,687 ; Nanded (Nanded), 10,492, 1,397,762 ; Buldhana (Buldhana), 9,745, 1,262,978 ; Akola (Akola), 10,567, 1,501,478 ; Amravati (Amravati), 12,210, 1,541,209; Yavatmal (Yavatmal), 13,925, 1,423,677 ; Wardha (Wardha), 6,307, 779,562; Nagpur (Nagpur), 9,928, 1,942,688 ; Chandrapur (Chandrapur), 25,641, 1,640,137 ; Bhandara (Bhandara), 9,214, 1,585,580.

No. of Villages : 35,778 inhabited (1971 census).

State Boundaries : It is surrounded by the Arabian Sea in the west ; by Gujarat in the north-east ; Madhya Pradesh in the north ; Andhra Pradesh in the south-east ; and Karnataka and Goa in the south.

State Language : Marathi.

Major Cities	Population	Area in sq. kms.
Greater Bombay ..	5,970,575	603·00
Nagpur	866,076	217·56
Pune	856,105	138·85
Solapur	398,361	23·23
Kolhapur	259,050	66·82
Amravati	193,800	36·34
Malegaon	191,847	12·95
Nasik	176,091	58·28
Thane	170,675	26·16
Akola	168,438	20·88
Ulhasnagar	168,462	13·34
Aurangabad	150,483	40·79
Dhule	137,129	26·75
Nanded	126,538	12·17
Ahmadnagar	118,236	19·87
Sangli	115,138	20·90
Jalgaon	106,711	12·30

AGRICULTURE*: Classification of land and area in '000 hectares for 1977 respectively are :

Total geographical area 30,758 ; area under forests 5,348 ; net area sown 18,206 ; gross cropped area 19,505 ; barren & uncultivable land 1,739 ; land put to non-agricultural use 929 ; culturable waste 1,009 ; land under miscellaneous tree crops 193 ; permanent pastures and other grazing lands 1,625 ; current fallows 922 ; other fallows 787 ; area sown more than once 1,299.

Area Irrigated — by Sources ('000 hectares), 1973-74 : Government canals 299 ; tanks 222 ; wells 840 ; other sources 111 ; net irrigated 1,472 ; gross irrigated 1,764.

Area Irrigated — by Crops during 1973-74 (In '000 hectares) : Rice 340 ; wheat 336 ; jowar 313 ; sugarcane 215 ; cotton 57 ; groundnut 18.

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* Source : Director of Agriculture, Pune 1.

Land Ceiling : The revised ceiling law came into force in the State on Oct. 2, 1975. The ceilings for various categories of land (in hectares) are as follows : Perennially irrigated land : 7·2 ; seasonally irrigated land : 10·8 ; land with unassured irrigation or land under paddy crop in assured rainfall area : 14·569 ; other dry crop land : 21·853.

Surplus Land : A total of 150,000 hectares of land was expected to be declared surplus under the New Ceiling Act. Till Dec. 1976, 99,917 returns were received under the New Ceiling Act and enquiry in respect of 86,783 returns covering an area of [illegible] hectares of land was completed. Nearly 99,000 hectares were distributed to 6,454 landless persons.

(See main chapter on 'Food & Agriculture' for details of production etc.)

Livestock : (1972) : Total cattle 14·70 million ; total buffaloes : 3·30 million ; sheep : 2·13 million ; goats : 5·91 million ; horses and ponies : 58,287 ; pigs : 202,936 ; camels : 703 ; other livestock : 54,351 ; poultry : 2·22 million.

Agricultural Machinery : (1972) : Wooden ploughs : 1·78 million ; carts : 1·52 million ; sugarcane crushers : 8,748 ; oil engines with pumps for irrigation : 173,678 ; ghanies : 2,000.

Dairy Development : There are 22 Government Milk Schemes operating in the State. These are in Bombay, Pune, Nasik, Dhule, Miraj, Solapur, Kolhapur, Aurangabad, Akola, Amravati, Nagpur, Udgir, Ahmednagar, Chalisgaon, Chiplun, Ratnagiri and Kankavali (Ratnagiri District), Mahad and Khalapur (Kulaba District), Mahableshwar (Satara District), Wardha, Bhir and Nanded.

The Creamery Project at Udgir in Osmanabad District, has been converted into a liquid milk scheme.

The average quantity of milk procured daily under all Government Milk Schemes (except Greater Bombay Milk Scheme) during Nov., 1977 was about 926 kilolitres as against 876 kilolitres during Nov., 1976. Out of the quantity 130 kilolitres was distributed locally to 143,000 card holders. The rest of the quantity was transported to meet the demand of the consumers in Bombay, Pune and Nagpur.

Under **Greater Bombay Milk Scheme,** about 794 kilolitres of milk was received daily in Nov., 1977 as against 718 kilolitres during Nov., 1976. The daily average quantity of milk (including whole, toned, cow, standardised, five per cent fat milk) distributed by Greater Bombay Milk Scheme, in Nov., 1977 was about 795 kilolitres as against 754 kilolitres in Nov., 1976. No. of regular milk card holders : 746,370.

Students' Dairy at Aarey milk colony manufactures sterilised milk, table butter and ice cream.

Powder Milk Plants : The two powder plants in co-operative sector viz. Jalgaon and Warananagar and the Government powder plant, Miraj put together convert daily 138 kilolitres of milk. Work of construction of powder plant at Udgir in Osmanabad District is in progress. The plant was expected to be commissioned in 1978. In addition to these a powder plant is also being established at Nagpur so that surplus milk could be converted into powder.

The Govt. has undertaken the establishment of new dairies at Satara, Parbhani, Buldhana, Bhandara and Chandrapur.

Aarey Milk Colony : Started functioning March 13, 1949.

No. of licensee cattle owners 103 ; no. of dairy units occupied by licensees 21.

No. of animals at Aarey : Buffaloes (milch) 5,303 ; (dry) 201 ; bulls 94 ; young stock [illegible] ; cows (milch) [illegible] ; (dry) 62 ; young stock 891 ; Govt. herd : cows [illegible] ; young stock 1,376.

Average daily milk production per milch animal at Aarey : buffalo 5·8 kgs. ; cross breed cow's 6·0 kgs. ; Indian cow 3·0 kgs.

Pasteurisation capacity : 18,000 litres per hour.

Bottling capacity : 40,800 bottles per hour.

Handling capacity : 250,000 litres per day.

Worli Dairy : Started functioning on November 7, 1961. Pasteurising capacity : 66,000 litres per hour ; bottling capacity : 70,000 bottles per hour ; handling capacity : 450,000 litres per day.

Kurla Dairy : The dairy was inaugurated by the Union Agriculture Minister Jagjivan Ram on Feb. 9, 1976. It is expected to handle 400,000 litres milk every day. About 100,000 litres of milk is being distributed through this dairy at present.

Dapchari Milk Project : No. of animals (*a*) milch cattle with family of farmers 10,000 ; with licensees 10,000 ; with research centre 1,000 ; (*b*) dry cattle : 10,000 ; (*c*) young stock 10,000.

Against a target of 1,200 units only 170 have been established in the area till June, 1978.

Fisheries : See chapter on 'Fisheries'.

Irrigation and Power Projects : See chapter on 'Irrigation and Power Projects'.

Village Electrification : Out of 35,851 villages in the State 20,055 had been electrified up to Nov., 1976.

Electric Power Development : The per capita consumption of electricity in 1975-76 was 166 kwh., highest in India. The per capita consumption of the country is 84 kwh. The installed capacity as on 31st March, 1976 was 2,796·37 Mw. Out of the total installed capacity, 1,431·00 Mw was generated from steam, 1,155·3 Mw from hydro, 210·00 Mw from nuclear and 0·07 Mw from oil. The consumption in 1975–76 was 12,053 million kwh. The consumption for the previous year was 11,668 million kwh.

INDUSTRIES : Textiles, food industries, general and electrical engineering, petroleum, transport and transport equipment, sugar factories and refineries, rubber products, basic industrial chemicals, paints, varnishes, lacquers and miscellaneous chemical products are the major industries of the State.

Working Factories (1975) : No. of working factories : 11,425 ; average daily employment : 1,014,727.

Large and Medium Scale Industries : Distribution of working factories (1972) district-wise is as follows :—

Greater Bombay — 5,139, Thane — 1,048, Kulaba — [illegible], Ratnagiri — 56, Nasik — 298, Dhule — 134, Jalgaon — [illegible], Ahmadnagar — [illegible], Pune — [illegible], Satara — [illegible], Sangli — 140, Solapur — [illegible], Kolhapur — [illegible], Aurangabad — 136, Parbhani — [illegible], Bhir — 27, Nanded — 44, Osmanabad — 28, Buldana — [illegible], Akola — [illegible], Amravati — [illegible], Yavatmal — 81, Wardha — [illegible], Nagpur — 479, Bhandara — 184, Chandrapur — 45.

According to 1972 statistics, the number of working factories in major group of industries is :

Agricultural services : 1 ; forestry and logging : 7 ; mining : 3 ; manufacture of food products : 1,199 ; beverages, tobacco and tobacco products : [illegible] ; cotton textiles (including cotton ginning and baling) : [illegible] ; wool, silk and synthetic fibre textiles : 467 ; jute, hemp and mesta textiles : 4 ; textile products (incl. wearing apparel other than footwear) : 259 ; wood and wood products, furniture and fixtures : 318 ; paper and paper products and printing, publishing and allied industries : 859 ; leather and fur products : 35 ; rubber, plastic, petroleum and coal products : 541 ; chemical and chemical products : 679 ; non-metallic mineral products : 636 ; basic metal and alloy industries : 433 ; metal products and parts except machinery and transport equipment : 1,056 ; machinery, machine tool parts except electrical machinery : 902 ; electrical machinery apparatus, appliances and supplies and parts : 474 ; transport equipment and parts : 185 ; other manufacturing industries : 301 ; electricity : 75 ; gas and steam : 11 ; water works and supplies : 35 ; construction : 2 ; wholesale trade in fuel, light, chemicals and ceramics etc. : 2 ; wholesale trade in papers, wood, hide and skin and non-edible oils : 9 ; water transport : 1 ; air transport : 6 ; storage and ware-housing : 8 ; communications : 1 ; sanitary services : 14 ; educational and scientific services : 3 ; medical and health services : 2 ; recreational and cultural services : 20 ; personal services : 37 ; repair services : 297.

Joint Stock Companies : No. of joint stock companies limited by shares as on 31st March, 1976 : 9,849 ; paid-up capital : Rs. 10,880 million.

No. of new joint stock companies incorporated and registered with authorised capital (Rs. in million) respectively : 1966–67 : 227 ; 316·9 ; 1967–68 : 249 ; 406·9 ; 1968-69 : 262 ; 119 ; 1969-70 : 329 ; 367·5 ; 1970-71 : 462 ; 560·4 ; 1971-72 : 660 ; 580 ; 1972-73 : 629 ; 130 ; 1973-74 : 831 ; 430.

Industrial Estates : Sixty-nine places have been selected for the location of industrial estates. Out of the 69 estates 31 were developed during the Third Plan period and the remaining 28 estates were treated as spill-over and completed during Fourth Plan period. By end of Dec. 31, 1976 2,414 sheds had been constructed in these estates and 256 sheds were under construction.

Industrial Development Agencies : See chapter on 'State Govt. Undertakings'.

LABOUR (as on Jan. 31, 1978).

Trade Unions : No. of registered trade unions : 3,791. Total membership of registered trade unions : 1,749,535*. No. of registered trade unions affiliated to Indian Trade Union Congress : 180 with membership of 442,162*. No. of registered trade unions affiliated to All India Trade Union Congress : 97 with membership of 122,339*. No. of registered trade unions affiliated to Hind Mazdoor Sabha : 52 with membership of 293,341.

No. of Factories : Total no. of registered factories : 13,075 ; no. of working factories : 11,922.

No. of Workers : Average daily no. of workers employed in factories : 1,048,087.

Industrial Disputes during 1977* : During the year there were 446 work stoppages (strikes & lockouts) involving 214,178 workers with a time-loss of 1·94 million man-days. Figures for 1976 (12 months) were 313 work stoppages involving 132,288 workers with time-loss of 490,932 man-days.

Employment Exchange Statistics (1976-77)

No. of registrations : 474,682 ; no. of placements : 87,832 ; no. of vacancies notified : 40,043 ; no. on live register : 876,935.

Educational Break-up of Unemployed (No. on live register at the end of June, 1977) : Non-matric including illiterates : 387,353 ; matriculates : 365,249 ; intermediates : 36,816 ; engineering diploma holders : 1,345 ; I.T.I. passed and apprentices trained under Apprenticeship Act : 19,714 ; engineering graduates : 898 ; other graduates : 74,896 ; total graduates : 75,794 ; engineering post-graduates : 17 ; other post-graduates : 7,401 ; total post-graduates : 7,418 ; grand total : 893,689.

The table below gives the average daily number of workers employed in various industries (as on Dec. 31, 1976).

Industry	Average daily no. of workers employed
Ginning and pressing	27,322
Food (except beverages, sugar factories and refineries)	38,543
Sugar factories and refineries	38,497
Tobacco, tobacco products & beverages ..	6,891
Textiles — Cotton, silk & synthetic ..	301,937
Printing, publishing and allied industries ..	35,494
Rubber, plastics, petroleum and coal products	35,326
Chemicals and chemical products	94,672
Products of petroleum and coal	5,263
Non-metallic mineral products	40,312
Basic metal and alloy industries	52,881
Metal products and parts (except machinery and transport equipment)	51,497
Machinery, machine tools and parts (except electrical machinery)	86,099
Electrical machinery, apparatus, appliances, parts and supplies	57,019
Transport equipment and parts	70,055
Other industries	106,279
All industries	1,048,087

Private Sector Employment : The total employment in the State under private sector was 1·185 million at the end of June 1977.

Public Sector Employment : Increased from 1·75 million in June 1976 to 1·84 million in June 1977. Of these 24·6 per cent were in Central Government ; 25·3 per cent in local bodies ; 27·7 per cent in State Government and 22·4 per cent in quasi-government.

Employment Promotion Programme : The State Govt. provided Rs. 35·5 million as financial help to 13,514 educated unemployed since 1972 to start their own enterprises (industrial or business) and thereby 12,964 units were established uptil September 1976.

EDUCATION

Teaching Institutions (as on Sept. 30, 1976).

Type	Number	Enrolment
Schools		
Pre-Primary	794	61,398
Primary	48,620	7,709,452
Secondary	5,782	2,615,803
Colleges		
Teachers Training	159	17,246
Higher Education	702	482,727
Professional		
Professional and Special Education	1,040	94,381

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* Jan. to Sept. 1977.

Technical Education (1977-78): Category-wise number of institutions: Engineering colleges: 8; other degree colleges: 4; autonomous governing bodies: 6; polytechnics: 25; other diploma institutions: 23; technical high schools: 119; industrial training institutions and centres: 61; others: 718; total: 964.

Universities

1. *University of Bombay* (established in 1857) has jurisdiction over Bombay. Nine colleges of Goa are also affiliated.

2. *University of Poona*, Pune (established in 1948) has jurisdiction over Pune, Ahmadnagar, Jalgaon, Dhule, Thane, Nasik and Kulaba districts.

3. *Nagpur University*, Nagpur (established in 1925) has jurisdiction over the districts of Akola, Buldana, Amravati, Nagpur, Bhandara, Yavatmal, Wardha, Chandrapur and Rajura taluka of Vidarbha area.

4. *Marathwada University*, Aurangabad (established in 1958) has jurisdiction over the five districts of Marathwada area viz. Aurangabad, Bhir, Nanded, Osmanabad and Parbhani.

5. *Shivaji University*, Kolhapur (established in 1963) has jurisdiction over Kolhapur, Solapur, Satara, Sangli and Ratnagiri districts.

6. *Shrimati Nathibai Damodar Thackersey Women's University*, Bombay (established in 1949), is exclusively for women and has unrestricted territorial jurisdiction.

7. *Mahatma Phule Agricultural University*, Rahuri, Ahmednagar district (established in 1968).

8. *Panjabrao Deshmukh Agricultural University*, Akola (established in 1969) has jurisdiction over revenue divisions of Nagpur and Aurangabad.

9. *Konkan Agricultural University (Krishi Vidyapeeth)*, Dapoli, Ratnagiri Dist. (established in 1972) has jurisdiction over the districts of Thane, Kulaba, Ratnagiri & Gr. Bombay.

10. *Marathwada Agricultural University*, Parbhani (established in 1972) has jurisdiction over five districts of Aurangabad Revenue division of Maharashtra.

(For further details of the universities in Maharashtra State, see chapter on Education.)

PUBLIC HEALTH

Total no. of allopathic medical practitioners registered: 31,554.

Total no. of doctors in Govt. hospitals and dispensaries: 3,174. (*a*) Full time: 2,312, (*b*) honorary: 437, (*c*) medical professors: 94; Lecturers: 486.

Total no. of nursing staff in Govt. hospitals and dispensaries: 6,335; staff nurses in Govt. hospitals: 5,016, (*a*) midwives: 39; (*b*) public health nurses: 109; (*c*) paediatric nurses: 41; (*d*) psychiatric nurses: 41; (*e*) ward sisters 662; (*f*) matrons attached to hospitals: 56.

Total no. of **Medical Colleges** including municipal and private: 7. Seats allotted: 925 (incorporated seats: 750); **Dental Colleges**: 2. Seats allotted: 130.

	Hospitals		Dispensaries		Total	
	No.	Beds	No.	Beds	No.	Beds
State Government.. ..	105	21,100	24	20	129	21,120
Central Government ..	26	2,754	15	27	41	2,781
Mun. and local bodies ..	91	6,083	1,322	1,928	1,413	8,011
Others (excluding private agencies) Govt.	77	8,837	11	90	88	8,927

Non-Allopathic Medical Colleges, Hospitals and Dispensaries:

Ayurvedic: No. of Government colleges: 3; private colleges: 13; total no. of seats provided in Govt. colleges (ayurvedic): 225; total no. of seats in aided ayurvedic colleges: 842; no. of Government hospitals: 3; Government aided hospitals: 12; research ward (Government): 1; total no. of beds: [illegible]; zilla parishad dispensaries: 667; Govt. aided: [illegible]; no. of licentiate doctors: 20,409.

Homoeopathy: No. of private homoeopathic colleges: 24; no. of seats provided: 1,265; no. of homoeopathic hospitals: 23; total number of beds: 549; no. of licentiate doctors: 7,362.

Unani: No. of unani colleges (private): 1; total no. of seats provided in the college: 30; no. of beds in unani hospital: 20; no. of zilla parishad aided unani dispensaries: 30; total no. of licentiate doctors: 4,586.

Nationalised Road Transport: A single transport corporation for the entire State, known as the Maharashtra State Road Transport Corporation, came into existence on July 1, 1961. This is the biggest road transport organisation in India.

Nationalised Road Transport position as on Dec. 31, 1977 was as follows:

FAMILY WELFARE PROGRAMME (1977-78)

No. of urban family planning centres (31-3-1977)		184
No. of rural family planning centres		389
Sterilisation operations performed (upto Feb., 1978)	vasectomy	14,099
	tubectomy	83,609
Total		97,708
IUCD insertions done upto Feb., 1978		13,325
Condoms distributed up to Nov., 1977		442,500 dozens

COMMUNICATIONS

Length of Motorable Roads*

Road length as on 31st March, 1976 (in kms.)	
National highways	2,909
State highways	15,042
Major district roads	19,969
Other district roads	16,046
Village roads	34,771
TOTAL	88,737

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* *Source:* PW & H Dept., Mantralaya.

No. of routes : 7,390 ; route distance : 485,520 kms. ; average no. of vehicles on road per day : 6,301 ; average daily earnings : Rs. 3,894,806 ; average no. of passengers who travelled per day : 76,296 million.

Railways : Total (1976) length : 52,232 kms.

Zone-wise : Central Railway : 2,350 kms. ; South Central Railway : 1,855 kms. ; South Eastern Railway : 676 kms.; Western Railway : 351 kms.

B.E.S.T. — Bus Section (1975-76) : Total staff in the undertaking : 25,479 ; no. of buses : 1,667 ; route kilometres : 1,609·4 ; average no. of passengers carried per day : 3·30 million ; income for the year : Rs. 374·478 million ; total expenditure for the year Rs. 394·175 million.

Electric Supply Section : No. of units purchased : 1,352 million ; no. of units sold : 1,232·1 million ; no. of consumers : 505,842 ; income : Rs. 439·281 million ; expenditure : Rs. 369·380 million.

Number of vehicles

Class of Vehicles	As on 1st January	
	1975	1976
Motor Cycles	151,988	171,135
Motor Cars	169,895	179,989
Taxi Cabs	21,576	22,657
Auto-Rickshaws	7,768	9,906
Stage Carriages —		
(*i*) Diesel engined	8,621	9,665
(*ii*) Petrol engined	91	49
Lorries :		
A. Private Carriers —		
(*i*) Diesel engined	18,083	19,216
(*ii*) Petrol engined	7,374	7,107
B. Public Carriers —		
(*i*) Diesel engined	37,594	40,744
(*ii*) Petrol engined	9,951	9,654
Ambulances	590	643
School Buses	492	504
Private Service Vehicles	1,322	1,478
Trailors	10,366	11,298
Tractors	11,116	12,019
Others	1,387	1,636
TOTAL	458,214	497,700

GENERAL

Housing : No. of tenements constructed by the erstwhile Maharashtra Housing Board from April 1947 to March 31, 1977 is given below.

Old Industrial Housing Scheme 2,608 ; old Low Income Group Housing Scheme 2,075 ; Burmah-Shell Oil Refinery 500 ; military hutments 1,575 ; rehabilitation 19,715 ; subsidised Industrial Housing Scheme 34,098 ; low income group 13,070 ; economically weaker section 5,028 ; Slum Clearance Scheme 20,830 ; open developed plots 1,822; Midled Income Group 2,857 ; Dishoused Persons Scheme 200 ; Deposit Contribution Scheme 3,843 ; transferred from Marathwada 1,031 ; Transferred from Municipal Corpn., Solapur 10.

Slum Improvement : With a view to executing the Slum Improvement Programme more expeditiously, the State Government have established the **Maharashtra Slum Improvement Board** which is now responsible for the administration of the Slum Improvement Programme. This Board started functioning from 2nd February, 1974. During 1976–77 an amount of Rs. 48·69 million was spent on slums by providing amenities such as latrines, water taps, sewers and drains, roads and street lights.

Housing Landless : Nearly 370,000 landless and houseless people of the State were provided with house-sites under the 20-point economic programme. 65 per cent of these are *harijans, girijans* or belonging to nomadic tribes.

State Income : According to current prices the State income for 1975-76 was Rs. 74,750 million and the **Per Capita income** was Rs. 1,330.

Village Panchayat : (31-3-76) : No. of *panchayat samitis :* 296 ; no. of villages covered (including 57 non-municipal urban areas) : 38,716 ; population covered 352,000. There were 23,792 village *panchayats* in Maharashtra State at the end of 1975-76.

Zilla Parishads : Total no. of *zilla parishads :* 25.

Municipal Corporations and Councils: There are five Corporations *viz.* Greater Bombay, Pune, Nagpur, Kolhapur and Solapur and 222 Municipal Councils as at the end of March, 1976.

PRESS

Names	Place of printing	Average net circulation for 1977
Dailies (*English*)		
Economic Times	Bombay	27,515
Evening News of India ..	Bombay	27,008
Financial Express	Bombay	10,047
Free Press Bulletin	Bombay	21,770
Free Press Journal	Bombay	43,662
Indian Express	Bombay	116,424
Nagpur Times	Nagpur	23,554
Times of India	Bombay	226,583
(*Hindi*)		
Navbharat	Nagpur & Raipur	23,598
Nav Bharat Times	Bombay	82,441
(*Gujarati*)		
Bombay Samachar	Bombay	126,527
Janmabhoomi	Bombay	48,670
Janshakti	Bombay	32,688
(*Marathi*)		
Kesari	Pune	58,226
Loksatta	Bombay	119,784
Maharashtra Times	Bombay	159,583
Mumbai Sakal	Bombay	20,782
Navakal	Bombay	31,979
Navshakti	Bombay	35,226
Sakal	Pune	96,918
Sanchar	Solapur	16,246
Tarun Bharat	Nagpur	54,246
Tarun Bharat	Pune	57,770
(*Sindi*)		
Hindustan	Bombay	12,516
(*Urdu*)		
Inquilab	Bombay	19,907

Rivers : The Godavari, the Tapti, the Panjhra, the Girna, the Purna, the Wardha, the Wainganga, the Indravati, the Pranhita, the Penganga, the Pravara, the Manjra, the Bhima, the Sina, the Varna, the Ghatprabha, the Mula, the Dudna, the Ghod, the Kadam, the Nira, the Tirna and the Krishna.

Minerals : The State has rich reserves of manganese ore, iron ore, coal, bauxite and limestone. Besides there are appreciable reserves of minerals such as dolomite, ilmenite, kyanite, sillimanite, clays, silica sand etc. There also exist deposits of copper, lead, zinc, tungsten, barytes, feldspar, soapstone, mica, asbestos, graphite and corundum in small quantities. The mineral reserves are confined mainly to the districts of Yavatmal, Nagpur, Bhandara, Kulaba, Kolhapur, Ratnagiri and Thane. A good quantity of salt is also produced in the State.

Annual Plan (1978-79) : The outlay for the Annual Plan is fixed at Rs. 7,350 million, out of which Rs. 2,830 million has been allocated for power schemes.

MANIPUR STATE

CAPITAL : Imphal. **Area :** 17·48 sq. kms. ; **Population :** 100,366.

Area of the State : 22,356 sq. kms. ; **Population of the State :** 1,072,753 ; **Density :** 48 per sq. km. ; **Sex Ratio :** 980 females per 1,000 males ; **Literacy :** 32·80 per cent.

Districts : Manipur has been reorganised into six districts. The area in sq. kms. and population respectively of each district are as follows: Manipur Central : 2,230 ; 724,537 ; Manipur East : 4,409 ; 62,229 ; Manipur North : 3,417 ; 104,175 ; Manipur West : 4,344 ; 44,975 ; Manipur South : 4,581 ; 98,114 ; and Tengnoupal : 3,375 ; 33,723.

Major City : Imphal.

State Boundaries : Manipur is bound in the north by Nagaland, in the south by Mizoram, in the east by Upper Burma and in the west by Cachar district of Assam.

State Languages : Manipuri and English are the official languages though several different dialects are spoken. Hindi is becoming gradually prevalent.

AGRICULTURE : The principal crops are paddy and maize. After the end of the Fourth Plan considerable land has been brought under Japanese method of cultivation, double-cropping and use of improved seeds and green manure. 105 minor irrigation schemes are being taken up in the valley areas to increase food production. Gross irrigated area covers about 14,485 hectares. Foodgrain production during 1976-77 was 249,000 tonnes against base level production of 274,000 tonnes.

Irrigation & Power : 4 Irrigation Projects — the Loktak Lift Irrgn. Project, the Singda Multipurpose Project, the Imphal Barrage Project and Khoupum Dam Project — are in progress. The first phase of the Loktak Lift Irrigation Project was expected to be commissioned during 1978-79 to irrigate about 10,000 hectares. The Imphal Barrage was also to be commissioned in 1978-79 to irrigate about 4,000 hectares of land. The Khoupum Dam Project was expected to be completed by June 1978 and would provide irrigation to 1,200 hectares in a remote tribal area. The work on the Singda Dam Project was progressing. The Sekmai Barrage Project work was to be taken up during 1978-79.

The investment during 1976-77 was Rs. 38·2 million. The total investment during the Fifth Five Year Plan on major and medium irrigation projects alone will be about Rs. 225·00 million.

About 15,000 hectares of land would be brought under irrigation during 1978-79. Schemes have also been prepared for taking up a multi-purpose project across the Thoubal River at Phayeng costing about Rs. 200 million with irrigation potential of about 32,780 hectares. The Khuga Dam Project also would be taken up during 1978-79 to provide irrigation to 5,000 hectares.

Forests : Manipur forests are rich in bamboo, cane, teak, jurjan, pine and varieties of timber. Of the total area of 22,356 sq. kms. forests occupy about 14,365 sq. kms. Bamboo and cane over an area of 2,585 sq. kms., are available in abundance in the south-western hill ranges, especially in the Jiri and Barak river drainage area, yielding about 300,000 tonnes annually.

During 1977-78, 15 development schemes with an outlay of Rs. 4·2 million were taken up.

Fisheries : More than 75 per cent of the population consume fish. The total annual consumption is estimated to be 13,935 quintals, while the total yield is about 9,400 quintals. There are 303 fishing units registered with the Fishery Department, Manipur.

During 1977-78, 10 schemes were taken up in the valley areas of Manipur and 8 schemes in the hill areas. The valley areas schemes : (*i*) Fish seed production-cum-fish fry distribution, (*ii*) Applied nutrition programme, (*iii*) Commercial fish farms, (*iv*) Assistance to pisciculturists, (*v*) Fisheries extension scheme, (*vi*) Education and training, (*vii*) Supervision, (*viii*) Cage culture, (*ix*) Composite fish farm, (*x*) Preservation and marketing. The Hill Area Schemes are : (1) Fish seed production-cum-fry distribution ; (2) Applied nutrition ; (3) Assistance to pisciculturists ; (4) Education & Training ; (5) Supervision ; (6) Cage culture ; (7) Fisheries extension schemes and (8) paddy-cum-fish culture. 5·50 million fish fingerlings and 4,950 tonnes of fish were produced during 1976-78 earning a revenue of Rs. 560,281.

INDUSTRIES: The total Annual Plan 1977-78 allocation for Industries as a whole is Rs. 12·62 million excluding sericulture. Out of this amount Rs. 7·60 million have been provided for large & medium industries and Rs. 5·02 million for Village & Small Industries Sector.

Large & Medium Industries : In the field of large and medium Industries, a khandsari unit with 60 tonnes per day crushing capacity started production in [illegible]. A spinning mill with [illegible] spindle capacity is being erected. The mill will cost Rs. 55·6 million. The Government has also obtained letter of intent for a sugar mill with [illegible] tonnes per day crushing capacity, a 25 tonnes per day capacity [illegible] paper mill based on pine and a [illegible] tonnes per day capacity paper mill based on bamboo. Steps have also been taken to start a mini-cement plant in east district of Manipur which will utilise the substantial limestone deposit. Action has also been taken to install a starch and glucose factory with a plant capacity of 60 tonnes maize per day. This will enable the Government to utilise the State average production of 25,000 tonnes maize annually.

Village & Small Industries : Handloom is the biggest industry in Manipur. There are more than 200,000 registered looms in the State and 400 weavers' co-operative societies.

For the development of handloom the Manipur Handloom and Handicrafts Development Corporation has been set up.

One intensive handloom development project has been taken up. Under this project — 10 handloom extension centres at different places have been opened with 100 looms per centre to be expanded to 1,000 looms per centre within five years commencing from the year 1978-79. Government of India has sanctioned Rs. 18·5 million for this project.

A handloom export oriented production project for production of exportable varieties/designs has been sanctioned by the Government of India. It will have 10,000 looms.

Handicrafts : One handicrafts design centre, one doll and toys production centre and two bamboo and cane training centres have been established.

Small Scale Industries : The small industries include carpentry, blacksmithy, embroidery, brick-making, tailoring and cutting, goldsmithy, repairing and servicing of vehicles, tin smithy.

Manipur Small Industries Corporation arranges the supply of scarce raw materials and marketing the finished products.

Training-cum-production centres in various trades have been set up both in the valley and the hill areas. Altogether 26 such training centres are functioning.

Industrial Estate: Industrial Estate at Takyelpat, Imphal provides industrial sheds at concessional rates to small scale units. 28 such sheds have been constructed and allocated.

Tribal development (Sub-plan) : For the development of tribal population a tribal sub-plan has been formulated in the industrial field for tribal development in hill areas. Under this plan co-operative saw mill-cum-carpentry units have been set up at Kangpokpi, Tamenglong, Tengnoupal (Chakpi), Ukhrul and a leather training-cum-processing unit at Churachandpur.

A tribal emporium at Imphal under the Directorate of Industries facilitates sales of tribal handloom cloth and handicrafts products.

Khadi and Village Industries : There are 32 hand pounding co-operative societies including one at the apex level, 7 pottery co-operative societies, 3 gur and khandsari co-operative societies, 6 khadi institutions and co-operatives, 7 bee-keeping co-operative societies, 3 hide flaying and leather co-operative societies, 4 non-edible oil and soap making co-operative societies, 44 edible oil crushing co-operative societies including one at the apex level and one match making co-operative society.

Plan outlay : The outlay for the Annual Plan 1978-79 is Rs. 282·6 million.

Sericulture : Manipur is the first to introduce *Oak Tasar* industry. There are 54 *tasar* farms which produced about 30 million *tasar* cocoons valued at Rs. 2·0 million. About 5,000 tribals thus find subsidiary occupation.

Labour : Following are the numbers of workers engaged in different fields (male and female respectively).

Total no. of workers : 245,435 ; 125,428 ; cultivators : 167,038 ; 81,442 ; agricultural labourers : 8,662 ; 4,863 ; other workers : 69,735; 39,123.

EDUCATION (1977-78)

Institutions	No.
Primary Schools	3,446
Middle Schools	415
Secondary Schools	12
Higher Secondary Schools	203
Colleges for General education	21
Govt. Polytechnic	1
Medical College	1
Law College	1
Music College	1
Art College	1
Teachers' Training College	1
Teachers' Training School	1

University Education : The Jawaharlal Nehru University has opened a centre for post-graduate studies in Imphal.

PUBLIC HEALTH (1977-78) : There are 12 hospitals including a hospital under regional medical college. Besides, there are 17 public health centres, 55 public health sub-centres, 64 dispensaries and 6 other clinics.

COMMUNICATIONS : Manipur has no railway line and the only surface communication is the Imphal-Dimapur road, the length of which is 215 kms. A national highway also passes through the State. A second road is now being improved for regular vehicular traffic which will link Cachar district of Assam with Manipur. There are five principal private operators of motor transport in the co-operative sector, besides the Manipur State Road Transport Corporation.

Two land routes from Burma pass through the State. There are air services at regular intervals between Imphal-Silchar, Imphal-Calcutta and Imphal-Gauhati.

GENERAL : With the passing of the North-Eastern Areas (Re-organisation) Bill on 21-12-71, Manipur became a full-fledged State which was till then a Union territory.

The State was formally inaugurated by the former Prime Minister Mrs. Indira Gandhi on 21-1-72.

Climate : Varied temperatures. The valleys are hot and the hills are cold. Average rainfall is 162·5 cms.

Important rivers : The Iril, the Thoubal, the Imphal, the Barak, the Nambul, the Leimakhong and the Khuga.

Lakes : The Loktak lake is the biggest with an area of 207 sq. kms. The other important lakes are Waithou, Ushoipokpi, Ikop, Laidokan and Pumlen.

Minerals : Geological mapping and mineral investigation conducted by the Geological Survey of India indicated availability of high quality of limestone at different places in the State in sufficient quantities to start a small cement plant.

Tribes : Main population consists of the Meiteis inhabiting the valley with some 29 tribes and sub-tribes known by the generic name of Kukis and Nagas.

MEGHALAYA STATE

CAPITAL: Shillong. **Area:** 21·27 sq. kms.; **Population:** 122,752.

Area of the State: 22,489 sq. kms.; **Population of the State:** 1,011,699; **Density:** 45 per sq. km.; **Sex Ratio:** 942 females per 1,000 males; **Literacy:** 29·49 per cent.

Districts	Head-quarters	Area in sq. kms.	Population
East Khasi Hills	Shillong	11,168	491,209
West Khasi Hills	Nongstoin		
East Garo Hills	William-nagar	8,084	406,615
West Garo Hills	Tura		
Jaintia Hills	Jowai	3,295	113,875

Source: Census 1971.

Major Cities with their Population: Tura: 15,489; Jowai: 8,929.

State Boundaries: Bound by Bangladesh in the south and west, Goalpara, Kamrup districts of Assam in the north and United Mikir and North Cachar Hill districts of Assam in the east.

State Language: English is being used for all official purposes at the State level. The State has not enacted any legislation on official language. The principal languages spoken are Khasi, Jaintia and Garo.

AGRICULTURE: Eighty-five per cent of the population lives in rural areas and depends on agricultural produce for their livelihood.

Following are some of the crops grown:

Grains: Rice, maize, millets and wheat.

Fruits: Citrus, pineapple, bananas, pears, peaches, plums and apples.

Cash & Commercial Crops: Potatoes, jute and mesta, short-stapled cotton, mustard, arecanut, ginger, turmeric, black pepper, pipul, tezpat etc.

LIVESTOCK: The State has 18,379 sheep, 46,021 buffaloes, 350,000 pigs and more than 400,000 cattle.

DAIRYING: It provides bulk of Assam's milk supply. Meghalaya has launched a Rs. 8·2 million Indo-Danish project for the development of cattle. A dairy extension unit at Jowai produces butter, ghee and cream. Meghalaya produces 48,000 tonnes of milk.

IRRIGATION: A number of minor irrigation projects cover approximately 3,000 hectares of land. More projects will be taken up in phases covering both lift and flow irrigation.

POWER: There are at present three hydel projects with a total installed capacity of 65·2 MW. Another hydel project is under construction with an installed capacity of 60 MW. A thermal plant of 5 MW will also be commissioned shortly.

INDUSTRIES: Some of them are: The Meghalaya Plywoods Ltd.; The Komorrah Limestone Mining Co. Ltd.; The Associated Beverages (P) Ltd.; The Meghalaya Essential Oils & Chemicals Ltd.; The Meghalaya Phyto-Chemicals Ltd.

The public-sector Mawmluh-Cherra Cements Ltd., at Cherrapunji with an installed capacity of 250 tonnes a day is being expanded to 930 tonnes per day. A number of small industrial establishments like saw mills, food processing units, bone mill, cotton ginning, bakeries, etc., are also to be found in Meghalaya.

Proposals are also afoot to set up industries based on lemon grass oil, ginger oleo-resin and emetine hydrochloride.

An industrial area in Burnihat, about 80 kms. from Shillong on the Gauhati-Shillong road, is being developed and two industrial estates, one at Shillong and the other at Mendipathar in Garo Hills district, are being established.

At present there are 644 small industrial units in the State out of which 547 are in the Khasi Hills, 43 in Garo Hills, and 54 in Jaintia Hills.

EDUCATION: The North-Eastern Hill University at Shillong offers upto post-graduate education. The Central Institute of English and Foreign Languages has also set up its branch in Shillong.

The State has at present 15 colleges, one post-graduate training college, 145 high/higher secondary schools, 352 middle/senior basic schools, one polytechnic, 2 industrial training institutes and 3,195 lower primary schools.

Percentage of literacy in the State is 29·49 which compares favourably with the all-India average of 29·35 per cent.

HEALTH: There are seven Government hospitals, fourteen primary health centres and 57 dispensaries. The number of beds in the Government hospitals is 743. There are three training institutes for nurses with 60 seats. There are also a number of private hospitals.

MINERAL WEALTH: Major mineral resources are coal, limestone, sillimanite, dolomite, fireclay, felspar, quartz and glass sand. The estimated reserves of coal are about 1,200 million tonnes. Limestone reserves are about 2,100 million tonnes and clay deposits ten million tonnes.

ANNUAL PLAN 1977-78: The outlay for the Annual Plan is Rs. 244·6 million against Rs. 202·2 million for the previous year.

GENERAL: The hill State of Meghalaya was created under the Assam Reorganisation (Meghalaya) Act, 1969 of Parliament passed on December 24, 1969. It was inaugurated by the former Prime Minister Mrs. Indira Gandhi on April 2, 1970 as an autonomous State and subsequently was made a full-fledged State on January 21, 1972.

The population of Meghalaya predominantly consists of the Khasi, Jaintia and Garo tribes.

Cherrapunji, one of the urban centres of the State, has the world's highest rainfall of 10,870 mms.

Rivers: The Bogapani, the Kynshi, the Kupli, the Digaru, the Jinjiram and the Simsang.

MIZORAM

(Union Territory)

CAPITAL : Aizawl. **Area of the Territory :** 21,087 sq. kms. ; **Population :** 332,390 ; **Density :** per sq. km. 15·76 ; **Sex Ratio :** 1,018 males per 1,000 females : **Literacy :** 53·70 per cent (male : 59·47 per cent, female : 42·50 per cent).

Districts : (Name, area in sq. kms. and population respectively) : Aizawl : 12,428 ; 229,112 ; Lunglei : 6,066 ; 62,136 : Chhimtuipui : 2,596 ; 41,142.

Towns : Aizawl ; Lunglei.

Boundaries : The Territory is bound by Cachar district of Assam in the north, Manipur in the north-east, Burma in the east, Bangladesh in the south and west and Tripura in the north-west.

AGRICULTURE

Total geographical area : 1,101,900 hectares ; gross cropped area : 70,000 hectares ; net area sown : 9,000 hectares ; multiple cropped area : 6,000 hectares ; current fallow area : 133,290 hectares ; area not available for cultivation : 474,110 hectares ; other cultivated areas : 46,300 hectares ; total net area under permanent irrigation : 2,500 hectares. Paddy is the principal crop. Other crops grown are maize, cotton, groundnut, potato, ginger, orange, til, lime and tea. Cash crops like coffee, rubber, cardamom and cashew-nuts have recently been introduced as part of soil conservation scheme. Ginger and til cultivation has shown good results.

Production (1976-77) : Rice : 118,468 tonnes ; Others : 98,557 tonnes.

Land Tenure : There is no individual land-holding in Mizoram and so far no tenure has been established. The land belongs to the village as a whole and the people practice shifting cultivation.

However, land is allotted by issue of panes for establishing gardens and terraces for permanent cultivation.

Forests : Reserved : 1,300 sq. kms ; riverine reserved : 4,023 sq. kms.; unclassed state : 3,470 sq. kms.; supply and safety reserves : 1,200 sq. kms.; inner line reserves : 559·86 sq. kms.; roadside reserves : 362 sq. kms.; Dampa Wild Life Sanctuary : 446·20 sq. kms. Taur Wild Life Sanctuary (proposed) : 259 sq. kms.

Animal Husbandry : Livestock : 201,135 ; poultry : 9,000,000 ; veterinary dispensaries : 11 ; rural animal husbandry centres : 23; veterinary hospital : 1.

INDUSTRIES

There is no major industry in the Territory. A few people are occupied in traditional cottage industries. The Mizos are good weavers. They produce lovely woollen carpets, but the production is very slow and not economical. They produce cane hats and baskets. No. of cottage industry centres is 99 permanent, 90 provisional and 10 weaving centres.

Workers (1971) : Total No. of workers : 151,619 ; cultivators : 126,652 ; agricultural labourers : 558 ; workers in mining, quarrying, livestock, forestry, fishing, hunting, plantation, orchard and allied activities : 411 ; manufacturing, processing & household industry : 272 ; construction : 1,903 ; trade and commerce : 1,631 ; transport and communications : 832 ; other services : 18,862 ; non-workers : 180,771.

Community Development : There are 20 C.D. blocks in the Territory, covering 21,087 sq. kms.

Co-operation (as on 1st January, 1977) : There are 216 co-operative societies in the Territory out of which 156 are in Aizawl district and 60 in Lunglei district. There are five super markets run by co-operative societies.

Govt. Employees: (1977) : There were 13,543 Govt. employees in the Territory. In Class I there were 159 males and 9 females, in Class II, 426 males and 40 females, in Class III, 5,865 males and 1,737 females and in Class IV, 5,093 males and 214 females.

EDUCATION

Almost every village has a Government or a private school offering education from standards I to III in vernacular and English. There were 146 pre-primary schools, 510 primary schools, 224 middle schools, 108 high schools, six colleges for general education, one teachers' training institute, one Hindi teaching institute, one industrial training institute and one theological college. Mizoram Board of School Education was established in 1977 and it conducted H S L C Examination 1978 for the first time.

PUBLIC HEALTH

No. of hospitals : 5 ; dispensaries : 15 ; no. of doctors : 51 ; nurses : 137 ; auxiliary nurses/midwives : 201 ; pharmacists : 130 ; matrons : 4 ; beds in hospitals/medical units : 411 ; T. B. hospital : one with 50 beds ; and medical units : 85.

COMMUNICATIONS

Communication has been a great problem in the Territory. Motorable roads exist between Aizawl, Silchar, Lunglei, Demagiri, Champhai and Saiha.

Length of roads : 1,157·315 kms. ; black topped 801·10 kms.

No. of vehicles (registered) as on April 1, 1977 : 3,127.

Post Offices : (*a*) With telegraphic facilities : 2; (*b*) without telegraph facilities : 145.

GENERAL

On December 21, 1971, the Lok Sabha passed the Constitution (Twenty-seventh Amendment) Bill providing for a legislature and council of ministers for the Union Territory of Mizoram (former Mizo Hills district of Assam). The Bill provides special safeguards for the minority tribal groups. Mizoram was inaugurated by the former Prime Minister Mrs. Indira Gandhi on January 21, 1972.

Rivers : Tlawng (Dhaleshwari), Tuiruang, Tuirial, Kaladan, Karnafuli, Tuivai and Tiau.

Lakes : Palak, Tamdil and Rengdil.

The People : The word **Mizo** means highlander, **Mi** means person and **Zo** means Hills. The Mizos include a variety of tribes — the Lushais, Pawis, Paihtes, Raltes, Phangis, Hmars, Kukis, Maras and Riangs and their home is in the Mizo Hills and some regions of Manipur, Tripura, Burma and Bangladesh. Other Tribes in the region are the Chakmas and Tipras.

Among the Lushais the percentage of literacy is 86. The British missionaries introduced Christianity and scripted the Mizo language in Roman alphabet.

Press : 27 newspapers out of which 10 dailies, 4 weeklies and 10 monthlies, are brought out regularly. Of these 14 are published from Aizawl, 6 from Lunglei and the balance from Chhimtuipui.

NAGALAND STATE

CAPITAL : Kohima. **Area :** 7,209 sq. kms. **Population :** 175,204.

Area of the State : 16,527 sq. kms. ; **Population of the State :** 516,449 ; **Density :** 31 per sq. km. ; **Sex Ratio :** 871 females per 1,000 males ; **Literacy :** 27·40 per cent.

Districts	Hqs.	Area in sq. kms.	Population
Kohima	Kohima	7,209	130,610
Mokokchung ..	Mokokchung	3,852	82,852
Tuensang	Tuensang	5,466	108,863
Zunheboto ..	Zunheboto	—	47,093
Wokha	Wokha	—	38,297
Phek	Phek	—	44,595
Mon	Mon	—	64,140

No. of Villages : 966.

State Boundaries : The State is bound by Assam in the west, Arunachal Pradesh in the north, Burma in the east and Manipur in the south.

State Languages : English is the official language of the State for administration and education. However, the common language used is Assamese and English.

AGRICULTURE

Rice accounts for 80 per cent of foodgrain output with cotton, jute, mesta, sugar-cane, tobacco, potatoes and sweet potatoes also cultivated substantially. Average food production is 90,157 tonnes in a year.

Forests : Area : 2,876 sq. kms. ; reserved forests : 286 sq. kms. ; protected forests : 508 sq. kms. ; unclassed village forests : 2,072 sq. kms. Revenue from forests (1974–75) : Rs. 2·50 million.

Fisheries : Average annual catch from inland fisheries is 50 tonnes.

INDUSTRIES

There are 1,567 small and cottage industries at present. Under the forest department a seasoning and treating plant has been set up at Dimapur which is expected to add a few saw mills and a joinery mill (for the manufacture of doors, windows, floor and ceiling boards, wall frames etc.) and a waste board mill for the manufacture of hard-board from saw-dust.

Labour : Cultivators : 203,341 ; agricultural labourers : 3,797 ; livestock, fishery, forestry, hunting, orchards and allied industries : 1,061 ; mining and quarrying : 76 ; house-hold industry : 788 ; other than house-hold industry : 2,087 ; construction : 3,277 ; trade and commerce : 4,725 ; transport, communication & storage : 2,388 ; other services : 38,474 ; non-workers : 254,335 ; total workers : 262,114.

EDUCATION

No. of Government institutions : lower primary schools 986 ; M. E. schools 238 ; high schools 67 ; colleges (private 7, Govt. 3) ; training institutes for teachers 3 ; industrial training institute 1 ; adult literacy centres 171.

PUBLIC HEALTH

General hospitals : 27 ; T. B. hospitals : 2 ; primary health centres : 10 ; sub-centres (under primary health centres) : 41 ; school health service : 3 ; health education programme : 1 ; malaria eradication programme : 1 ; small-pox eradication programme : 1 ; B.C.G. teams : 3 ; T.B. clinics : 3 ; S.E.T. (leprosy) : 10 ; V. D. clinics : 2 ; beds in hospitals : 1,130.

At present one medical unit covers an average of 176·12 sq. kms. and one hospital bed is available for every 466 persons.

COMMUNICATIONS

The railway covers only 8·04 kms. in the whole State and the main railway station is Dimapur, which is the gateway to Nagaland.

Roads : State highways : 1,114 kms. ; major district roads : 253 kms. ; other district roads : 608 kms. ; village roads : 2,045 kms.

GENERAL

Five Year Plan : Nagaland's Annual Plan for 1978–79 has been fixed at Rs. 245·0 million against Rs. 192·7 million in 1977–78.

Rainfall : The rainfall in Kohima is 1,488.7 m.m. ; in Tuensang 2,686.2 m.m. and in Mokokchung 730.59 m.m.

Inter-State Power Transmission Lines : The Central Govt. has sanctioned a loan assistance of Rs. 19·2 million for the construction of Loktak–Dimapur power line. Rs. 90,000 for Dimapur-Mariani and Rs. 270,000 for Dimapur–Bokajan lines.

TRIBES : The main tribes in the State are : Angami, Sema, Lotha, Ao, Rengma, Chakhesang, Sangtam, Konyak Chang, Phom, Yichungar, Khemungau, Zeliang and Kuki.

ORISSA STATE

CAPITAL : Bhubaneswar. **Area :** 65 sq. kms. ; **Population :** 105,491.

Area of the State : 155,842 sq. kms. ; **Population of the State :** 21,944,615. **Density :** 141 per sq. km. ; **Sex Ratio :** 988 females per 1,000 males. **Literacy :** 26·18 per cent.

Districts : 13 (56 sub-divisions, 26 municipalities).

Name (hqrs. in brackets), area (sq. kms.) and population respectively.

Balasore (Balasore) : 6,304 — 1,830,504 ; Baudh Khondmals (Phulbani) : 11,070 — 621,675 ; Balangir (Balangir) : 8,903 — 1,263,657 ; Cuttack (Cuttack) : 11,211 — 3,827,678 ; Dhenkanal (Dhenkanal) : 10,826 — 293,914 ; Ganjam (Chatrapur) : 12,527 — 2,293,808 ; Kalahandi (Bhawanipatna) : 11,835 — 1,163,869 ; Keonjhar (Keonjhar) : 8,240 — 955,514 ; Koraput (Koraput) : 27,020 — 2,043,281 ; Mayurbhanj (Baripada) : 10,412 — 1,434,200 ; Puri (Puri) : 10,159 — 2,340,859 ; Sambalpur (Sambalpur) : 17,570 — 1,844,898 ; Sundargarh (Sundargarh) : 9,675 — 1,030,758.

Major Cities : Name, population and area in sq. kms. respectively.

Cuttack : 205,759 — 73 ; Rourkela : 172,502 — 122 ; Berhampur : 117,662 — 20 ; Bhubaneswar : 105,491 — 65.

No. of Villages : 51,639 — inhabited : 46,992 ; uninhabited : 4,647 (1971). **No. of Towns:** 81 (including 4 cities).

State Boundaries : It is surrounded by the Bay of Bengal in the east, Madhya Pradesh in the west, Andhra Pradesh in the south, Bihar in the north, and West Bengal in the north-east. It lies between the parallels of 17°48′ and 22°34′ north latitudes and meridians to 81°24′ and 87°29′ east longitude.

AGRICULTURE : It provides employment to about 77 per cent of the State's labour force and contributes about 56 per cent of the total income. High yielding programmes constitute the king-pin of new agricultural strategy, Paddy is a major crop. In 1976-77, 557,633 hectares were put to HYV paddy crops as against 482,000 hectares in the previous year. The area and production of food grains is 6·037 million hectares and 4·075 million tonnes respectively for the year 1976-77. The area ('000 hectares) and production ('000 tonnes) respectively of other crops during 1976-77 were : Oilseeds : 425 ; 243 ; sugarcane : 45 ; 277 ; condiments & spices : 88 ; 58 ; tobacco : 15 ; 7 ; jute : 47 ; 404 ; sunhemp : 6 ; 21 ; cotton : 5 ; 5.

Land Reform : The most remarkable and vital provisions of the 1974 amendment act is that the ceiling has been fixed at 4·047 hectares, 6·07 hectares, 12·14 hectares and 18·21 hectares of a Class-I, Class-II, Class-III and Class–IV lands instead of 8·094 hectares, 12·14 hectares, 24·28 hectares and 32·37 hectares respectively in the original act of 1973 for a family of 5 members with an additional 0·809 hectares for each member in excess of 5, subject to a total of 7·284 hectares. Seventy per cent of surplus lands vested in Government will be distributed among the Scheduled Castes or Scheduled Tribes.

Fisheries : See chapter on " Fisheries ".

Irrigation and Power Projects : See chapter on Irrigation and Power Projects.

ELECTRICITY 1976-77 : Electricity generated : 3,088 Mkwh.; electricity consumed : 2,485 Mkwh. ; installed capacity : 923 M.W.; percentage consumed by industries : 73 ; per capita consumption : 106 kwh. ; no. of villages electrified : 14,758.

INDUSTRIES : A number of medium and large industries like a ferro vanadium plant in collaboration with the Central Government, an automobile tyre and tubes plant, a nylon filament yarn plant, a calcium carbide plant, a sponge iron unit, a caustic soda and chrome plant, a dichromate plant, a carbonisation plant, a formed coke and pig iron plant and soda ash and ammonium chloride plant are proposed in the joint sector.

Private entrepreneurs are also promoting a paper plant, an aluminium ingot plant and a brewery unit. The Government of India are actively considering setting up a fertiliser plant, a nickel project and a sand separation plant to produce minerals from the rich sand of the Gopalpur coast of the State.

The industries in operation are textiles, cement, refrigerators, paper, glass, sugar, iron and steel, potteries, spinning mills, tube mill, refractories, chlorine and caustic soda, heavy structural and transmission towers, aluminium ingots, aluminium cables, prestressed concrete, cast iron products including spun-pipes, heavy equipments, ferro-silicon, ferro-manganese and fertiliser.

Industrial Development Agencies (See chapter on ' State Govt. Undertakings ').

LABOUR : (As on 30-12-1976).

No. of employment exchanges : 21 ; no. of registrations 211,809 ; no. of vacancies notified 35,732 ; no. of placements effected 21,420; no. of applications on live register 356,217.

No. of unions on register (1975) : 429 ; no. of members : 193,683.

No. of industrial disputes (1976) : 40 ; no. of workers involved : 4,827 ; no. of man-days lost : 8,899.

No. of working factories (1975) : 1,005 ; no. of workers employed : 73,213.

Panchayat Raj : 1977 — No. of panchayat samities : 314 ; no. of gram panchayats : 3,833.

EDUCATION (1976-77)

No. of institutions : Universities : 4 ; arts, science & commerce colleges : 92 ; teachers training colleges : 6 ; high, higher secondary & post-basic schools : 1,971 ; middle & senior basic schools : 6,383 ; primary & junior basic : 31,687 ; teacher's training schools (E.T. and handicrafts) : 8 ; schools for handicapped : 2.

Medical Education : Medical colleges : 3 ; admission capacity : 300 ; nursing training centres : 3 ; admission capacity : 100 ; pharmacist training centre : 1 ; admission capacity : 64.

Universities (1974-75) :

1. **Berhampur University,** Berhampur (established under Orissa Act 21 of 1966) — has 16 affiliated colleges, 7 University departments with an enrolment of 6,678 and 231 respectively.

2. **Utkal University,** Bhubaneswar—has 43 affiliated colleges and 20 teaching departments (including two law colleges, one at Cuttack and another at Bhubaneswar).

3. **Sambalpur University,** Sambalpur — has 28 affiliated colleges.

4. **Orissa University of Agriculture and Technology,** Bhubaneswar — has 4 constituent colleges.

(For further details about universities see chapter on Education).

PUBLIC HEALTH (As on Dec. 31, 1976).

No. of hospitals — State : 200 ; others : 40 ; total : 240 ; no. of dispensaries — State : 277 ; others : 53 ; total : 330 ; no. of special hospitals — T.B. : 3 ; leprosy : 3 ; maternity : 4 ; paediatric : 2 ; mental : 1 ; infectious diseases : 1 ; no. of clinics — T.B. : 13 ; V.D. : 14 ; dental : 5 ; no. of blood banks : 14 ; no. of hospital beds : 11,683 ; no. of medical personnel — doctors : 5,757 ; nurses : 1,903 ; mid-wives and auxiliary nurses : 1,388.

Some important ratios : Urban doctor-population ratio : 1 : 1,500 ; rural doctor-population ratio : 1 : 13,000 ; total doctor-population ratio : 1 : 9,200.

Nurse-population ratio : 1 : 26,892 ; nurse-bed ratio : 1 : 8.

Indigenous system of medicine : ayurvedic and unani — hospitals : 3 ; dispensaries : 214 ; total : 217 ; beds : 208 ; ayurvedic college : 1 ; admission capacity : 30.

Homoeopathic — hospitals : 2 ; dispensaries : 139 ; beds : 49 ; doctors : 147 ; homoeopathic college : 1 ; admission capacity : 25.

COMMUNICATIONS : (As on 1-4-1976) — National highways : 1,634 kms. State highways : 2,190 kms. ; major district roads : 5,072 kms. ; other roads : 48,931 kms.

Ports : *Major Port :*—Paradeep (Cuttack district) ; biggest in the country, it can receive bulk-carriers of 60,000 tonnes.

Minor Ports :—Chandbali (Balasore district) and Gopalpur (Ganjam district).

See chapter on " Ports " for details.

Railways : (As on 31-3-1977)—Orissa has 1,817 kms. of broad gauge and 143 kms. of narrow gauge railway line.

Press (Leading dailies with circulation figures).

English : Amrit Bazar Patrika, Cuttack—circulation, included in the Calcutta edition. *Oriya :* Samaj, Cuttack 48,504 ; Prajatantra 24,216 and Matrubhumi 14,875.

GENERAL

Important Rivers : The Suvarnarekha, the Vaitarni, the Brahmini, the Mahanadi, the Indravati, the Sabri, the Sileru, the Rushikulya and the Budhabalanga.

Important Lakes : Chilka and Ansupa.

Minerals : Orissa's mineral potential is enormous. Her reserves of iron ore, manganese ore, chromite, limestone and graphite are among the very best in India. The minerals which are worked in large quantities include besides those stated above, coal, dolomite galena, fire clay and china clay. Deposits of bauxite, vanadiferous magnetite, kyanite, asbestos, soapstone and mica also occur in the State.

Plan : 1977-78 (Outlay under different heads in Rs. million). Fisheries 6·5 ; co-operation : 47·4 ; irrigation : 286·0 ; power : 569·6 ; industrial and mineral projects ; 46·4 ; education : 97·3 ; health : 30·7 ; housing : 32·0 ; water supply, sewerage and urban development : 46·9 ; backward classes : 10·5.

PONDICHERRY

(Union Territory)

CAPITAL : Pondicherry. **Area :** 6·2 sq. kms. ; **Population :** 90,367.

Area of the Territory : 480·0 sq. kms. ; **Population of the Territory :** 471,347 ; **Density :** 983 per sq. km. ; **Sex Ratio :** 996 females to 1,000 males. **Literacy :** 46·02 per cent.

District	Area in '000 sq. kms.	Population
Pondicherry	0·29	340,240
Karaikal	0·16	100,042
Mahe	0·01	23,134
Yanam	0·02	8,291

The Union Territory consists of 4 municipalities and 11 communes (panchayats) with effect from 26-1-1974. The capital of this Territory is Pondicherry which is enclaved by South Arcot District. Karaikal region is enclaved by Thanjavur District, Mahe by Cannanore District, Kerala State and Yanam by East Godavari District, Andhra Pradesh.

No. of Villages : 388.

State Languages : French, English, Tamil, Malayalam and Telugu.

ELECTRICITY

The entire power requirement is purchased from the neighbouring States of Tamil Nadu for Pondicherry and Karaikal regions, from Kerala for Mahe region and from Andhra Pradesh for Yanam region respectively.

All main villages have been electrified. During 1976-77 the consumption of energy was 135·39 million units.

Percentage of utilisation by various sections are : Industries : 54 ; agriculture : 30 ; domestic and commercial : 15 ; street lights : 1.

The per capita consumption of electricity was 250 units in 1976–77.

AGRICULTURE

The production of foodgrains in 1976–77 was estimated to be 102,000 tonnes.

Main crops, their production and area sown respectively are tabulated below :

Main Crop type		Area sown (estimated) in hectares	Production (tonnes)
1.	*Food crops :*		
	(*a*) Paddy	29,394	85,000
	(*b*) Millets	3,930	12,000
	(*c*) Pulses	7,615	5,000
2.	*Oil-seeds :*		
	Groundnut ..	5,000	11,500
3.	*Sugar :*		
	Sugarcane ..	1,927	210,000
4.	*Cotton :*	2,639	11,500 bales

Irrigation : There is no major irrigation project in this Territory. Modernisation of the irrigation channels in Karaikal region are under way. Flood control works in some of the major rivers in Karaikal are nearing completion. As regards Pondicherry region, under minor irrigation programme works are in progress to increase the efficiency of the tanks. Besides schemes have been formulated to put up two anicuts to divert more water to the irrigation tanks.

INDUSTRIES

Large and Medium Industries : Three textile mills in Pondicherry, a sugar mill at Ariyu, Pondicherry and a brewery in Pondicherry. Besides, there are two spinning mills, one at Karaikal and another at Mahe.

The only public sector project is the distillery at Pondicherry which has been in existence for about a century and which manufactures *arrack*, denatured spirit and rectified spirit. These units provide employment to about [illegible] persons directly and produce goods worth about Rs. [illegible] million annually.

Small-Scale Industries : The number of small scale units registered has risen to 810 (upto 31-3-78). These units comprise basic metal industries, chemical and chemical products, electrical apparatus and appliances, plastic based products, food products, wood based products, leather based products, printing, publishing and paper products, cement based products etc. They provide employment to about [illegible] and manufacture goods worth about Rs. [illegible] million annually.

Industrial Estates : 1. Industrial Estate, Thattanchavady, Pondicherry ; 2. Rural Industrial Estate, Kattukuppam, (P.O.) Manapet ; 3. Rural Industrial Estate, Kottucherry, Karaikal.

Industrial estates run by Pondicherry Industrial Promotion Development and Investment Corpn. (PIPDIC) are : 1. Industrial Estate, Mettupalayam, Pondicherry ; 2. Mini Industrial Estate, Mahe ; and 3. Industrial Estate, Kirumampakkam, Pondicherry.

Institutions which help the process of industrial development are : 1. The Pondicherry Industrial Promotion Development and Investment Corporation, 38, Romain Rolland Street, Pondicherry 605001 ; 2. The Tamilnadu Industrial Investment Corporation Ltd., 26, Whites Road, Madras 600001 ; 3. The Raw Material Depot of National Small Industries Corpn. Ltd., Thattanchavady, Pondicherry 605001 ; 4. The Nationalised Banks and Co-operative Banks.

LABOUR (as on December 31, 1977)

No. of registered trade unions: 79; no. of workers: 21,343; no. unemployed : 22,831 ; no. employed in factories and workshops : 38,166 ; no. of strikes in 1977 : 20.

EDUCATION

Schools (as on August 1, 1977)

	No. of schools	No. of pupils	Teachers
Pre-primary ..	52	2,414	74
Primary	286	36,459	1,098
Middle schools ..	83	33,720	1,136
Secondary schools	66	42,712	1,600

Colleges

	No. of colleges	Students	Teachers
Gen. education	9	4,932	762
Medical ..	1	618	157
Law	1	193	7

Professional Institutions

Name	No. of institutions	Students	Teachers
Polytechnic	1	306	54
Teachers' training centres	2	140	16
Junior tech. school ..	1	181	16
Nursing	1	91	4
School for embroidery, needle work, dress-making	1	342	5
Pre-vocational training centres	4	294	27
School for the blind, deaf and dumb	2	52	5

Universities : Nil.

Amount spent on education (1976-77) : Rs. 52,116,451.

PUBLIC HEALTH

No. of hospitals 9 (Govt. 7 ; private 2) ; general hospitals : 4 ; maternity hospital : 1 ; T.B. Sanatorium : 1 ; leprosarium : 1 ; private maternity hospital : 1 ; private nursing home : 1 ; dispensaries : 22 ; ESI dispensaries : 6 ; primary health centres : 12 ; chest clinic : 1 ; T.B. sub-centres : 2 ; filaria control units : 2 ; leprosy control unit : 1 ; sub-centres : 34 ; no. of beds : 1,384 ; no. of doctors : 199 ; no. of nurses : 313 ; bed population ratio : 1 : 380 ; doctor population ratio : 1 : 2,700 ; leprosy S.E.T. Centres : 20 ; part-time ESI dispensary : 1.

COMMUNICATIONS

No. of vehicles as on Dec. 31, 1977 : 10,490 ; no. of railway stations : 7.

Length of roads maintained by P.W.D. as on 31-3-'76 (in Kms.) is mentioned below:

Region	Cement/ concrete	Black top	Water-bound Macadam
Pondicherry ..	6·990	214·25	13·80
Karaikal ..	—	77·74	10·15
Mahe	—	16·59	—
Yanam ..	·500	4·52	1·45
TOTAL ..	7·490	313·08	25·40

CO-OPERATION : (As on June 30, 1977) :

Total number of co-operative societies : 275 ; total membership : 122,387.

Annual Plan : Plan out-lay for 1978-79 is Rs. 105·00 million.

Sector-wise allotment under various heads (Rs. million) is : Agriculture and allied services : 22·60 ; co-operation : 1·50 ; water and power development : 13·70 ; industries : 6·30 ; transport and communications : 8·00 ; social and community services : 50·70 ; economic services : 0·70 ; & general services : 1·50.

GENERAL

Rivers : In Pondicherry : the Gingee 30·215 kms. ; the Pambayar 11·50 kms. ; the Guduvayar 13·50 kms. ; the Malatar 25·50 kms. ; the Ponniar 14·00 kms.

In Karaikal : the Nandalar 15·165 kms. ; the Nattar 12·60 kms. ; the Vanjiar 12·30 kms. ; the Noolar 14·00 kms. ; the Arasalar 11·76 kms. ; the Thirumalai Arasanar 10·65 kms. and the Pravadayanar 5·60 kms.

In Mahe : the Mahe 114·3 m. in width — running for 1 km. length in the Territory.

In Yanam : the Coringa 15·24 m. in width—running for 4·00 kms. length in the Territory ; the Godavary running for 8·00 kms. length in the Territory.

Lakes : Oussuteri 540·17 m. cft. and Bahour 200·00 m. cft.

PUNJAB STATE

CAPITAL : Chandigarh. **Area :** 100 sq. kms.; **Population :** 233,004 (urban).

Area of the State : 50,376 sq. kms.; **Population of the State :** 13,551,060; **Density** per sq. km. 270; **Sex Ratio :** 1,000 males to 865 females; **Literacy :** 33·67 per cent.

Districts	Area in sq. kms.	Population
Amritsar	5,025	1,835,500
Gurdaspur	3,557	1,229,249
Hoshiarpur	3,887	1,052,153
Jullundur	3,396	1,454,501
Ludhiana	3,793	1,419,421
Bhatinda	5,564	1,027,293
Ferozepur	5,923	1,044,936
Patiala	4,669	1,211,303
Sangrur	5,096	1,146,650
Rupar	2,086	548,802
Kapurthala	1,634	429,514
Faridkot	5,746	1,151,738

NOTE : The names of the districts and district headquarters are the same.

Major Cities (Over 100,000 population) :

Name	Area in sq. kms.	Population
Amritsar	33·67	434,951
Ludhiana	19·65	401,176
Jullundur	44·03	296,106
Patiala	33·67	151,041

No. of Villages : 12,188 (inhabited).

Towns : 108.

State Boundaries : Pakistan in the west, Jammu & Kashmir in the north, Himachal Pradesh in the north-east, Haryana in the south and Rajasthan in the south-west.

State Language : Punjabi.

Land Ceiling : Seven hectares in case of irrigated land capable of producing two crops in a year, 11 hectares in case of irrigated land capable of producing one crop, 20·5 hectares in case of barani land and 21·8 hectares in case of banjar land.

Irrigation & Power Projects : Beas, Bhakra Nangal, Harike and Sirhind are the major irrigation projects of the State which irrigate about 26,230 sq. kms. Besides vast areas of the State are irrigated by about 500,000 tube wells, out of which 752 are deep tube wells.

Work on the installation of new units of Guru Nanak thermal plant is nearing completion and a new thermal plant at Ropar has also been taken up. The work on Ravi Dam is also initiated. On completion this project is expected to produce 500 MW of electricity and also irrigate 900,000 hectares of land.

Agriculture : The State agricultural authorities decided to bring 360,000 hectares under gram cultivation during the rabi season, 1977–78, and raise the production of gram to 325,000 quintals. During kharif season a record food production of 3·25 million tonnes were registered against 2·54 million during 1976–77 kharif season.

The Punjab Agricultural University has developed new varieties of Rice (P.R. 106). Wheat WL 410 which are disease resistant and yield higher out-put.

See also, Chapter on Agriculture.

Livestock (1972) : Cattle : 3,383,200; buffaloes : 3,781,400; sheep : 386,400; goats : 798,600; pigs : 46,100; horses and ponies : 50,800; donkeys : 64,400; mules : 9,300; Total : 8,623,000. Poultry : 2,953,000.

Animal Husbandry & Dairy :

There are 11 milk plants with a total handling capacity of about 900,000 litres per day. Besides the conventional milk products such as ghee, skim milk and white milk powder the State Dairy Development Corpn. has introduced new products such as *panir*, *barfi*, milk cake and lassi powder.

During 1977–78 an amount of Rs. 35 million has been allotted for animal husbandry.

There are about two million buffaloes and one million cows of breedable age. They produce about 2 million tonnes of milk annually. Punjab Agricultural University has taken up a new experiment in crossbreeding of cattle by which they hope to double the production of milk within eight to 10 years.

During 1978 an intensive livestock production programme with an estimated cost of Rs. 8·94 million to train 17,550 farmers in the techniques of rearing and feeding, breeding and management of exotic crossbred cattle has been approved. It envisages setting up of 1,290 poultry units of 100 birds each, 735 piggery units and 1,100 sheep units.

Electricity : The installed capacity of electric power was expected to be 1,230 MW in March 1978 by improving the working of Guru Nanak Dev thermal plant in Bhatinda, commissioning of the first unit of the Dehar Power Plant (165 MW) and the stepping up of the generation of Shanan UBDC hydel power stations. No. of villages electrified : 12,126; No. of towns : 108; Harijan Bastis : 204; No. of tubewell connections on power pumps : 150,000; No. of consumers : 1,176,420. The State has attained cent per cent electrification in 1976.

INDUSTRIES

Major industries are : Art silk, woollen and cotton textiles, fertilisers, bicycle parts, bicycles, sewing machines, sugar, cement, flour mills, electrical appliances, automobile ancillaries, industrial goods, agricultural tractors and large number of small-scale industries, dry battery cell, canneries and vanaspati.

Major public sector undertakings are Fertiliser Corporation of India, breweries and pharmaceuticals.

Production (1972–73) : Cotton textiles : 192·4 million metres; cycles : 31·14 million; sewing machines : 46·2 million; woollen textiles : worth Rs. 197·01 million; agricultural implements and machine tools : worth Rs. 212·9 million; steel re-rolling : worth Rs. 276·30 million; wood and machine screws : worth Rs. 4·50 million; scientific instruments : worth Rs. 150,000; hosiery : worth Rs. 285·00 million; powerloom weaving : worth Rs. 449·9 million; cotton ginning and processing : worth Rs. 470·00 million; sports goods : worth Rs. 24·00 million; resin and turpentine : worth Rs. 21·9 million; sugar : worth Rs. 86·30 million.

The State has 67 large and about 65 medium industrial units involving a total capital investment of about Rs. 996·44 million.

No. of joint stock companies (1973–74) : 1,047.

Small-scale industries : Punjab occupies a prominent position in the small sector with 39,318 units.

Industrial Development Agencies : (See chapter on 'State Govt. Undertakings').

Labour (1973) : Total workers : 3,912,592 ; cultivators : 1,665,153 ; agricultural labourers : 786,705 ; other workers : 1,460,734 ; No. of working factories : 4,933 ; No. of workers in working factories : 127,451 ; average daily employment in manufacturing industries : 56,000 ; per capita annual earning of workers in manufacturing industries Rs. 2,611.

The State Govt. has drawn up a scheme to give employment to 45,000 people during 1978–79 consisting of 21,806 unskilled, 8,675 technical and 14,409 non-technical educated people mostly on agriculture and allied services.

Labour Unions (1973) : on register : 617 ; No. of unions submitting returns : 412 ; membership of unions submitting returns : 203,686 ; industrial injuries : 2,727 (fatal 23 ; non-fatal 2,704).

Industrial Disputes (1974) : No. of disputes : 5,508 ; No. of workers involved : 4,513 ; No. of man-days lost : 69,285.

No. of disputes referred to industrial relations machinery (1974) : 4,254 ; disputes referred for adjudication : 1,160 ; disputes referred for arbitration : 4 ; disputes settled in conciliation : 1,284.

EDUCATION (1974-75)

	Schools	Students
Primary	9,120	1,819,517
Middle	1,213	524,074
Higher Secondary	1,495	211,376

Colleges : No. of arts, science and commerce colleges : 152 ; technical and professional colleges : 38 ; other colleges : 4 ; teachers' training colleges : 17 ; students in colleges : 109,549.

Universities : Guru Nanak University, P.O. Box 111, Amritsar 143001 ; **Punjab University,** Chandigarh 160017 ; **Punjab Agricultural University,** Ludhiana 141001 ; **Punjabi University,** Patiala 147001.

PUBLIC HEALTH (1974-75)

No. of hospitals : 133 ; primary health centres : 127 ; dispensaries : 448 ; ayurvedic and unani dispensaries : 390 ; No. of beds : 11,136 ; No. of doctors (Regd.) : 6,345.

COMMUNICATIONS

No. of vehicles : 43,570 ; public service vehicles : 2,780 ; motor cabs : 716 ; auto-rickshaws : 265 ; jeeps : 1,435 ; goods vehicles : 9,859 ; motor cycles : 16,295 ; private motor cars : 9,050 ; miscellaneous vehicles : 3,170.

Roads (1975) : National highways : 975 kms. ; roads maintained by Public Works Department (metalled) : 18,208 kms. ; black topped : 14,609 kms. ; cemented/concreted : nil ; unsurfaced : 3,210 kms. ; length of extra-municipal roads maintained by local bodies : 388 kms. ; unsurfaced motorable : 1,500 kms.

Press : (Leading Dailies)

Name	Town	Language	Circulation
Tribune	Chandigarh	English	122,090
Punjab Kesari ..	Jullundur	Hindi	55,829
Veer Pratap ..	-do-	Hindi	27,032
Ajit	-do-	Punjabi	25,596
Hind Samachar ..	-do-	Urdu	50,072
Pratap	-do-	Urdu	13,764

GENERAL

Panchayats : The entire State is covered by panchayats. A total area of 300,786 hectares of Shamlat land is vested in the panchayats. Of this 86,728 hectares is cultivable and 214,058 hectares non-cultivable. By leasing out the cultivable land the panchayats derive an income of Rs. 29·15 million per annum.

House Sites for Landless : Up to January 1, 1976, house sites had been allotted to 302,235 eligible persons (out of a total of 304,043) and of these 300,587 had been given possession of their plots.

Rivers : The Beas, the Sutlej, the Ravi and the Saraswati.

Tourism : The State has many diversified tourist attractions, catering to all tastes and temperaments. An allocation of Rs. 13·3 million has been made for development of tourism in the Fifth Plan.

The programmes taken up for tourism development are : A youth hostel at Amritsar, a complex with accommodation for 16 members at Ruper (where facilities for fishing and swimming exist) ; development of historic Aam Khas Bagh at Sirhind ; a floating restaurant on the bank of Bhakra mainline canal near Sirhind ; a restaurant and information centre at Wagah check post (Pakistan boundary) ; and a zoological park at Chhat Bir (occupies an area of 205 hectares).

Sixth Plan : Total plan outlays : Rs. 41,250 million ; Provision for State sector : Rs. 19,250 million ; Central sector projects : Rs. 22,000 million.

RAJASTHAN STATE

CAPITAL: Jaipur. **Area :** 206·06 sq. kms.; **Population :** 615,258.

Area of the State : 342,214 sq. kms. ; **Population of the State :** 25,765,806. **Density :** 75 per sq. km. ; **Sex Ratio :** 911 females per 1,000 males. **Literacy :** 19·07 per cent.

No. of Villages : 33,305 inhabited and 2,490 uninhabited.

State Boundaries : In the north and north-east it is bound by Haryana, Delhi and Uttar Pradesh ; in the east and south-east by Madhya Pradesh ; in the south-west by Gujarat and in the west by Pakistan.

State Language : Hindi.

Agriculture : The principal crops are wheat, jowar, bajra, maize and barley. The total cropped area (including double crop) in 1975–76 was 17·16 million hectares. (See Chapter on "Food & Agriculture" for other details.)

No. of Districts : 26 (82 Sub-divisions & 196 tehsils).

Name†	Area in sq. kms.	Population
Ajmer	8,479	1,147,729
Alwar	8,382	1,391,162
Banswara	5,037	654,586
Barmer	28,387	774,805
Bharatpur	8,093	1,490,206
Bhilwara	10,450	1,054,890
Bikaner	27,321	573,149
Bundi	5,550	449,021
Chittorgarh	10,858	944,981
Churu	16,829	874,439
Dungarpur	3,770	530,258
Ganganagar	20,629	1,394,011
Jaipur	14,000	2,482,385
Jaisalmer	38,401	166,761
Jalore	10,640	667,950
Jhalawar	6,216	622,001
Jhunjhunu	5,929	929,230
Jodhpur	22,860	1,152,712
Kota	12,437	1,143,870
Nagaur	17,718	1,262,157
Pali	12,391	970,002
Sawai Madhopur	10,593	1,193,528
Sikar	7,732	1,042,648
Sirohi	5,135	423,815
Tonk	7,200	625,830
Udaipur	17,267	1,803,680

Major Cities

Name	Area in sq. kms.	Population
Jaipur	206·06	615,258
Jodhpur	230·18	317,612
Ajmer	45·40	264,291
Kota	141·23	212,991
Bikaner	38·09	188,518
Udaipur	59·21	161,278
Alwar	40·47	100,378

Irrigation : In 1975-76 the total irrigated area was 17·09 per cent of the total cropped area. Fifth Plan schemes were expected to increase the irrigated area by 3·497 million hectares.

Existence of ground water reserves, spreading over an area of 41,000 sq. kms. with estimated reserves of 5,000 million cubic metres of water every year, has been discovered in the desert areas of the State.

Land Ceiling : 12·14 hectares for a family of five. If the family consists of more than five persons, every person in addition will get 2·42 hectares subject to a maximum of 24·28 hectares.

Livestock and Animal Husbandry : The milk yield of cows is currently estimated to be about 363 litres per cow per year. Dairy constitutes an important source of wealth. With a sheep population representing 19·1 per cent of the total sheep population of India. Rajasthan accounts for 45 per cent of all-India wool production.

Irrigation and Power Projects : See chapter on "Irrigation and Power Projects".

Industries — Large-Scale and Medium (1973-74) : Food products including hydrogenated oils and vanaspati ghee 13 ; beverages industries 2 ; cotton textiles 13 ; wool, silk & synthetic fibre textiles and other made-up textile goods 6 ; chemical & chemical products 2 ; non-metallic mineral products 4 ; basic metal and alloys industries 6 ; machinery, machine tools and parts except electrical machinery 4 ; electrical machinery, apparatus appliances and parts 4 ; transport equipments and parts 3 ; other manufacturing industries 1 ; electricity 59 ; water works & supply 1 ; repair services 5.

Production during 1976 : Cloth 68·90 million metres, yarn 38·07 million kgs., cement 1·7 million tonnes, salt 226,366 tonnes, ball-bearing (nos.) 7·6 million, sugar 32,100 tonnes, fertilizers 200,460 tonnes, spirits (all types) 3·16 million litres and wines 0·63 million litres.

Small-Scale Industries : The most important cottage and small-scale industries are tie and dye fabrics, wooden toys, *Gota Kinar*, handmade paper, gem cutting, cloth printing, agricultural tools and implements, embroidered shoes, leather bags, water bottles and handloom weaving.

Industrial Agencies : (See chapter on State Government undertakings).

Industrial Estates : Industrial estates have been established at Jaipur, Makhupura (Ajmer), Bhilwara, Udaipur, Pali, Sumerpur, Jodhpur, Bikaner, Bharatpur, Ganganagar and Kota.

Labour : No. of registered trade unions during 1976–77 : 1,248. Total membership : 195,580.

No. of registered factories (1975) : 3,197. Total No. of workers in the State (1971 census) : 8,048,859 ; workers as per cent of total population : 31·24 ; cultivators : 5,225,296; agricultural labourers : 749,116 ; other workers : 2,074,447 ; non-workers : 17,716,947.

Industrial Disputes (1976–77) : Strikes & lockouts : 28 ; workers involved : 6,850 ; man-days lost : 43,307.

Employment Exchange Statistics (1976) : No. of employment exchanges : 26 ; registration : 177,889 ; placements : 18,615.

Education (1975-76 provisional) : Higher secondary & secondary schools 1,456 ; middle schools 4,785 ; primary/junior basic schools 19,657 ; schools for professional education and special education 1,065.

Teachers : High/higher-secondary/multi-purpose schools : 26,450 ; middle/senior basic schools : 43,586 ; primary/junior basic schools : 41,486 ; schools for professional education and special education : 1,477.

Colleges : Colleges for general education : 92 ; colleges for professional and other education : 152.

Universities (1975-76) : **University of Rajasthan,** Jaipur ; established : 1947 ; no. of students : 80,997 ; **University of Jodhpur,** Jodhpur ; established : 1962 ; no. of students : 8,710 ; **University of Udaipur,** Udaipur ; established : 1962 ; no. of students : 7,958. *Institution deemed as University :* **Birla Institute of Technology & Sciences,** Pilani.

Amount spent on education : Rs. 838·7 million (1975-76).

Public Health : No. of hospitals during 1975 : 153 ; T.B. hospitals and sanatoria : 5 ; no. of T.B. beds : 1,300 ; leprosy hospitals : 2 ; beds : 115 ; mental hospitals : 2 ; beds : 439 ; isolation hospitals : 2 ; beds : 237 ; other hospitals : 142 ; beds : 11,520 ; total no. of beds : 15,739 ; dispensaries : 551 ; primary health centres : 232 ; beds : 1,628 ; mobile surgical unit beds : 500.

Medical Practitioners (1975-76) : Civil assistant surgeons : 1,587 ; specialists : 131 ; staff nurses : 721 ; midwives : 1,884 ; compounders : 3,258

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† **Headquarters of the same name.** ***Source :*** **1971 census.**

Non-Allopathic Hospitals and Dispensaries (1975-76) : Ayurvedic and unani hospitals : 40 ; no. of beds : 505 ; dispensaries : 1,935 ; *vaidyas* and *hakims :* 2,089 ; compounders and nurses : 1,897.

Medical Colleges : See chapter on " Education".

Communications : Total no. of vehicles (1976) : 186,758 ; private cars and jeeps : 34,285 ; motor cycles, autocycles and scooters : 75,457 ; taxis, cars and contract carriages : 544 ; stage carriers : 11,647 ; public and private carriers : 26,616 ; tractors and trailers : 36,608 ; others : 1,601 ; total : 186,758.

Motorable Roads (1976-77) : Painted roads 20,804 kms. ; metalled roads 4,818 kms. ; gravelled roads 8,070 kms. ; fair weather and dressed up tracks 3,081 kms. ; national highways : 2,110 kms ; total length of roads : 38,883 kms.

Railways: Rajasthan is served by 6,227·5 kms. of railway. Out of this nearly 5,820·2 kms. are in metre gauge, 293 kms. in broad gauge and 114·3 kms. in narrow gauge.

Press—Dailies : *English :* Rajasthan Chronicle, Jaipur ; Navjyoti Herald, Jaipur ; Jalte Deep, Jodhpur.

Hindi : Aag, Kota ; Adhikar, Jaipur ; Amar Rajasthan, Jaipur ; Chambal, Kota ; Kalam, Bikaner ; Mashal, Jaipur ; Nav Jyoti, Ajmer ; Nava Jyoti, Jaipur ; Rajasthan Patrika, Jaipur ; Rajasthan Times, Alwar ; Rashtra Doot, Jaipur ; Udai Bhanu, Bharatpur ; Vir Sainik, Bharatpur ; Jalte Deep, Jodhpur.

Sindhi : Bharat Bhoomi, Ajmer ; Hindvasi, Ajmer ; Hindu, Ajmer.

GENERAL

Important Rivers : The Luni, the Chambal, the Banas, the Mahi and the Sabarmati. Tributaries of the Luni: the Bandi and the Sarasvati. Tributaries of the Chambal : the Kali Sindh and the Parbati. Tributary of the Banas : the Berach.

Lakes (Name and location) : Sambhar (Jaipur) ; Sili Sedh (Alwar) ; Jai Samand (Udaipur) ; Fatehsagar (Udaipur) : Pichhola (Udaipur).

Housing : The Fifth Plan earmarked Rs. 200 million on housing schemes. L.I.C. loan of Rs. 11·00 million was allocated during 1977-78.

Free House Sites : Free house sites have been allotted to 550,000 persons. Loans upto Rs. 4,000 to each individual, repayable in easy monthly instalments within a period of 20 years, are given. So far loans amounting to Rs. 100 million have been sanctioned and 317,645 house sites have been developed.

Minerals : Rajasthan occupies the eighth place in mineral production. The total value of production in 1975 was Rs. 356 million and in 1976 Rs. 425 million. This is the only State with production of lead concentrate, zinc concentrate, emerald, tourmaline and wollastonite. This sector provided employment to 25,806 persons per day on an average in 1976. The State produced 193·7 tonnes of soapstone during 1976.

Annual Plan (1977-78) : Provides an outlay of Rs. 1,965 million of which Rs. 545 million had been earmarked for irrigation schemes.

The Plan lays greater emphasis on intensive agriculture, exploitation of groundwater, livestock, dairy development and other similar programmes. The target of foodgrains production in 1977-78 has been set at 7·7 million tonnes against 7·5 million tonnes for 1976-77.

SIKKIM

CAPITAL : Gangtok ; **Population :** 13,308 (1971 Census). The present population is estimated at around 35,000.

Area of the State : 7,298 sq. kms. **Population of the State :** 208,843 (1971 Census).

Districts : Four — Gangtok, Gayzing, Namchi and Mangan.

AGRICULTURE : Main crops are cardamom, oranges, apples, potatoes, maize, millet, ginger, soyabean, wheat, barley, paddy, pulses and vegetable covering 87,493 hectares.

Electricity : There are 4 hydro-electric power stations. Possibilities of exploiting the hydel resources are being explored. Presently Central Water and Power Commission has started constructing Lower Lagyap hydel project with a capacity of 12 MW power.

Forests : Forests occupy about 36 per cent of the land area.

INDUSTRIES: There is a distillery at Rangpo and a fruit preservation factory at Singtam. Copper, zinc, lead and graphite are being mined and occurrence of coal, lime and other minerals are being explored.

There is a tannery at Majitar and a watch assembly unit is being set up in collaboration with Hindustan Machine Tools Ltd. and a jewel bearing factory produces industrial jewels.

The State's first paper and pulp project is proposed to be set up at Melli, 56 kms. from Gangtok in south Sikkim. The project is expected to be completed within 2–3 years with daily capacity of 25 tonnes and will provide employment to 2,000 persons.

There is also a proposal to expand dairy industry with the help of National Dairy Development Corpn. The programme envisages the setting up of a modern dairy plant costing about Rs. 28·60 million.

Handicrafts : Local crafts include carpet weaving, handmade paper, wood carving, handloom weaving, cane and bamboo work.

EDUCATION : There are 260 primary schools and 6 higher secondary schools, and 49 junior high schools providing education to about 37,000 children. There is also a primary teachers training institution. A University college started functioning in 1976. Education is free for boys upto class VIII and for girls upto class XI.

PUBLIC HEALTH : There is a Central Hospital with 200 beds at Gangtok, inclusive of 70 T.B. beds. There are four district hospitals providing 160 beds. North and east districts have 4 T.B. beds and south and west districts have 10 T.B. beds each respectively. Seven primary health centres, each with 10 beds, 21 primary health sub-centres and 3 mobile dispensaries are in existence. In two districts, tuberculosis teams are functioning besides the main T.B. centre at Gangtok. A State family planning and MCH bureau is functioning. There are 52 doctors and 3 dental surgeons in service. 14 Grade 'A' nurses and 85 ANMS are in employment. All treatment and diet are free.

COMMUNICATIONS : There are 1,500 kms. of metalled roads and 48 major bridges. Public transport is nationalised. The nearest airport is at Bagdogra (121 kms.) and the nearest railway station is Siliguri (112 kms.).

GENERAL : Formerly a princely State in the eastern Himalayas and a protectorate of India, Sikkim opted by a referendum on April 14, 1975 to join the Indian Union. By the Constitution (36th Amendment) Act, 1975, Sikkim became the 22nd State of Indian Union since April 26, 1975.

TOURISM : A 72-bed tourist hostel at Gangtok and a restaurant at Rangpo are under construction. The work on tourist lodge at Pemayangtse (W. Sikkim) has been completed.

Religion : Mainly Mahayana Buddhism and Hinduism. There are a few Christians and Muslims.

Rivers : The main river is the Tista, which is formed by the confluence of the Lachen and the Lachung Chu in the north of Sikkim.

Annual Plan 1978-79 : The allocation for the year is Rs. 157·5 million.

TAMIL NADU STATE

CAPITAL : Madras. **Area:** 128 sq. kms. ; **Population:** 2,469,449.

Area of the State : 130,069 sq.kms.; **Population of the State :** 41,199,168 ; Projected population (1978): 46,902,000 ; **Males :** 20,828,021 ; **Females :** 20,371,147.

Decennial Population Growth Rate in the State (1961–71) : 22·30 per cent. **Sex Ratio** : 978 Females per 1,000 Males. **Density** : 317 per sq. km.

Percentage of literates to total population : 39·5 (51·8 per cent among males and 26·9 per cent among females).

Percentage of workers to total population : 35·78 (56·02 per cent for males and 15·17 per cent for females).

Percentage to total workers : Cultivators: 31·26; Agricultural labourers : 30·46 ; Other Workers : 38·28.

Percentage of urban population to total population : 30·26.

Birth rate for 1975 (Rate per 1,000 of estimated mid-year Population) : 22·8.

Death rate for 1975 (Rate per 1,000 of estimated mid-year Population) : 8·27.

Infant mortality rate for 1975 (Rate per 1,000 of live births) : 46·61.

Districts with Headquarters in brackets, Area in thousand sq. kms. and Population respectively : Madras City (Madras) 0·1 ; 2,469,449 ; Chingleput (Kanchipuram) 7·9 ; 2,907,599 ; North Arcot (Vellore) 12·3 ; 3,755,797 ; South Arcot (Cuddalore) 10·9 ; 3,617,723 ; Dharmapuri (Dharmapuri) 9·6 ; 1,677,775 ; Salem (Salem) 8·6 ; 2,992,616 ; Coimbatore (Coimbatore) 15·7 ; 4,373,178 ; The Nilgiris (Ootacamund) 2·5 ; 494·015 ; Madurai (Madurai) 12·6 ; 3,938,197 ; Tiruchirapalli (Tiruchirapalli) 14·3 ; 3,848,816 ; Thanjavur (Thanjavur) 9·7 ; 3,840,732 ; Ramanathapuram (Madurai) 12·6 ; 2,860,207 ; Tirunelveli (Tirunelveli) 11·4 ; 3,200,515 ; Kanyakumari (Nagercoil) 1·7 ; 1,222,549 (Total 14).

Major Cities : With area (in sq. kms.) and population. Madras City : 128 — 2,469,449 ; Madurai : 20·92 — 549,114 ; Coimbatore : 23·49 — 356,368 ; Salem : 19·99 — 308,716 ; Tiruchirapalli : 21·57 — 307,400 ; Tuticorin : 13·38 — 155,310 ; Nagercoil : 24·29 — 141,288 ; Thanjavur : 24·29 — 140,547 ; Vellore : 10·54 — 139,082 ; Dindigul : 11·77 — 128,429 ; Singanallur : 8·65 — 112,206 ; Tirupur : 11·92 — 113,302 ; Kumbakonam : 11·54 — 113,130 ; Kanchipuram : 11·37 — 110,657 ; Tirunelveli : 15·33 — 108,498 ; Erode : 8·44 — 105,111 ; Cuddalore : 27·79 — 101,335.

No. of Revenue Villages (1977) : 17,026 (provisional).

No. of Towns : 439.

State Language : Tamil. Other languages spoken : Telugu, Malayalam, Kannada, Urdu, English, Hindi and Gujarati.

Situation : The State lies between 8° 5′ and 13° 35′ of northern latitude and 76° 15′ and 80° 20′ of eastern longitude.

State Boundaries : Bound in the East by Bay of Bengal, South by the Indian Ocean, West by Kerala State and North by Andhra and Karnataka States.

AGRICULTURE

Refer to the chapter on ' Food & Agriculture '.

Land Ceiling : Reduced from 24·28 standard hectares to 15 standard hectares per family.

Fisheries : See chapter on " Fisheries. "

Land Utilisation

Classification of area	Area (in '000) hectares) 1975–76†
(*a*) By professional survey*	12,999
(*b*) By village papers*	13,032
Forests	1,972
Barren and uncultivable land	664
Land put to non-agricultural uses ..	1,660
Cultivable waste	385
Permanent pastures and other grazing lands	184
Land under miscellaneous tree crops and groves (not included in the net area sown)	207
Current fallows	1,416
Other fallow lands	522
Net area sown	5,989
Area sown more than once	1,246
Gross cropped area	7,235
Area under food crops	4,307
Area under non-food crops	1,947

† Figures are provisional. * Total geographical area.

Forests : (1976–77)

Area of reserved forests	17,300	sq. kms.
Percentage of total land area of State	15·5	
Area of reserved lands	3,544	sq. kms.
Output of timber	37,685	cub. mtrs.
Quantity of fuel extracted	[illegible]	[illegible]
Quantity of sandalwood	[illegible]	[illegible]

Major Irrigation Projects : See chapter on " Irrigation and Power."

Electrification in the State : Number of towns and villages electrified as on March 31, 1976 : 61,415.

Major Power Projects : See chapter on " Irrigation and Power ".

Labour : No. of trade unions (at the end of 1977) : 2,429 ; no. of strikes including lockouts in 1977 : 207 ; no. of man-days lost by strikes : 1,000,507.

No. of Persons Employed as on Sept. 30, 1976.

Sl. No.	Category	No. of persons (in '000)
1.	Agriculture, livestock, forestry and fishing	83·8
2.	Mining and quarrying	31·5
3.	Manufacturing	410·1
4.	Construction	59·0
5.	Electricity, gas, water and sanitary services	77·2
6.	Trade and commerce	60·2
7.	Transport, storage and communications	209·7
8.	Services	732·4
	Total Employed	1,664·5

No. of persons on live register of employment exchanges at the end of 1977 : 884,047.

Industrial Development Agencies : (See chapter on " State Govt. Undertakings ").

EDUCATION (1976-77)

Universities : Madras University, Chepauk, Madras 600005 ; Annamalai University, Annamalainagar, Chidambaram, South Arcot Dist. : Madurai Kamraj University, Madurai ; Tamil Nadu Agricultural University, Coimbatore. Gandhigram Rural Institute, Gandhigram, Madurai, is an Institute deemed-to-be an university.

Professional Institutions (1976-77)

	No. of Colleges	No. of Scholars
Medical colleges	12*	10,068
Agricultural colleges	4	1,950
Law colleges	2	3,258
Veterinary college	1	824
Engineering colleges	11*	12,098
Polytechnics	37	13,616
Technical, arts and industrial schools	119	17,623

* Provisional.

Number of Educational Institutions (1976-77)

Universities	4
High/higher secondary/post basic schools	2,874
Middle/senior basic/higher elementary schools	5,727
Primary/junior basic schools	27,306
Pre-primary schools	33
Colleges for general education	190
Colleges for special education	21
Colleges for professional education	66
Schools for special education	52
Schools for vocational training and technical education	317

MAJOR INDUSTRIES

Sl. no.	Type of industry	No. of units	Number employed	Output (Rs. in million)
1.	Spinning, weaving and finishing of textiles	586	125,595	3,108·4
2.	Electric light and power gas	30	90,857	995·8
3.	Manufacture and repair of motor vehicles	366	36,171	1,103·8
4.	Manufacture of machinery except electrical machinery	443	36,670	1,064·5
5.	Manufacture of miscellaneous food preparations	1,827	39,807	1,223·1
6.	Manufacture of electrical machinery apparatus, appliances and supplies	157	18,171	524·7
7.	Manufacture of railroad equipment	13	26,769	416·5
8.	Printing, publishing and allied industries (including book binding)	480	21,666	332·1
9.	Basic industrial chemicals including fertilisers	80	11,870	614·5
10.	Ferrous metal industries — iron and steel basic industries	182	19,197	485·4
11.	Sugar factories	21	11,740	465·0
12.	Manufacture of miscellaneous chemical products	295	23,934	387·2
13.	Manufacture of rubber and rubber products	57	7,510	494·4
14.	Manufacture of cement (hydraulic)	8	5,873	387·0
15.	Manufacture of metal products except machinery and transport equipment	270	11,214	215·9
16.	Tanneries and leather finishing plants	257	15,182	655·3
17.	Manufacture of motor cycles and bicycles	9	2,833	100·1
18.	Manufacture of grain mill products	873	14,729	813·8
19.	Manufacture of non-metallic mineral products (not elsewhere classified)	45	2,657	86·3
20.	Others	915	61,919	2,077·4

Number of Schools (1976-77)

	Number	Boys*	Girls*	Teachers
Elementary schools (lower)	27,306	2,230,072	1,757,515	111,633
Elementary schools (higher)†	5,727	1,328,685	996,600	67,822
Indian high schools (boys)*	2,874	1,095,283	594,549	68,497
Matriculation schools	31	13,931	17,186	1,970
Central schools	17	3,615	2,115	320
Anglo-Indian schools (boys)*	41	15,523	16,581	1,024
Anglo-Indian primary schools	3	500	387	24
Schools affiliated to Central Board of Secondary Education	57	27,770	12,146	1,932
Pre-Primary schools	33	2,764	2,679	127

* Girls are admitted to boys' high schools and vice-versa. † Includes middle schools.

PUBLIC HEALTH : 1976-77

No. of hospitals, dispensaries	1,741
No. of dispensaries : allopathic	835
„ „ ayurvedic	525
No. of beds in Govt. allopathic hospitals	45,811
No. of beds in Indian system hospitals (848 plus 25 Homoeopathy)	873
No. of nurses	20,393
No. of registered doctors (Allopathic)	25,600
„ „ „ (Indian medicine)	24,087
„ „ „ (Homoeopathy)	12,658

PRESS : Dailies 61; weeklies 111; tri-weeklies 1; fortnightlies 117; monthlies 469; quarterlies 71; others: 30; annuals 9.

Leading dailies with place of publication:

The Hindu (E): Madras & Coimbatore; *The Indian Express* (E): Madurai & Madras; *The Mail* (E): Madras; *Daily Thanthi* (T): Madurai, Tiruchirapalli, Madras, Tiruneveli, Coimbatore, Cuddalore & Vellore; *Dina Malar* (T): Tirunelveli & Tiruchirapalli; *Dinamani* (T): Madurai & Madras; *Dina Madal* (T): Madras; *Malai Murasu* (T): Tirunelveli, Tiruchirapalli, Madurai, Coimbatore, Vellore, Madras & Salem; *Murosali* (T): Tanjore & Madras; *Alai Osai* (T): Madras; *Thennagam* (T): Madras; *Anna* (T): Madras; *Lokavani* (M): Madras; *Musalman* (U): Madras.

(E) English. (T) Tamil. (M) Malayalam. (U) Urdu.

COMMUNICATIONS (as on March 31, 1977): Motor Vehicles on road: 221,195.

Length of Motorable Roads (in kilometres): National highways 1,865; state highways 1,745; major district roads 13,865; other district roads and village roads 15,833; roads maintained by panchayat unions and panchayats 53,513; other roads maintained by municipalities and Public Works Department 9,684; total 96,505.

Post & Telegraphs (as on March 31, 1977): Rural post offices 9,202; urban post offices 1,973; telegraph offices (including licensed offices) 2,006; telephone connections 169,123; telephone exchanges 619; PBX Boards: manuals 2,006; automatic 464; total 2,470; public call offices 2,316.

Exchange capacity (30-3-1977): Tamil Nadu Circle: 100,000; Coimbatore Circle: 13,000.

Ports : See chapter on 'Ports'.

GENERAL :

Plan outlay : Annual Plan for 1978-79 will be of the order of Rs. 3,050 million — about Rs. 350 million more than the current year's outlay of Rs. 2,635·2 million.

The sectoral allocation are: agriculture and allied services: Rs. 362·7 million; co-operation: Rs. 60·9 million; irrigation: Rs. 259·5 million; power: Rs. 1,141·2 million; industry: Rs. 139·2 million; road and road transport: Rs. 270·3 million; education: Rs. 162·7 million; water supply and sewerage: Rs. 263·4 million; others: Rs. 350·1 million.

Climate : Tropical. The maximum temperature: 43°C (110°F) and the minimum: 18°C (65°F).

Rainfall : The rainfall in the region is determined by the south-west monsoon (June to September) and the north-east monsoon (October to December). The average rainfall of the Madras division is 1,008·1 mm. with an average annual number of 53·5 rainy days, i.e. days on which 2·5 mm. or more of rain is recorded.

Soils : The three main types of soils found are red, black and alluvial. Red is however the predominant type. Along the coast line patches of arenaceous soils are also found.

Minerals : Salt, limestone, magnesite, gypsum, crude mica, bauxite, ilmenite, fireclay, lignite, iron ore etc.

Hills : The important hill ranges are the Western Ghats (Palani Hills in Madurai district and Annamalai in Coimbatore district form part of this range), the Eastern Ghats, Shevaroy Hills, Javadi Hills, the Kalrayans and the Pachaimalai. The Palghat gap averaging 24 kms. is the only marked break in the Western Ghats.

Important Rivers : The Cauvery, the Ponnaiyar, Palar, the Vaigai and the Tambraparani, Cheyyar, Meyar, Bhavani, Amaraveti & Chittar.

Major Lakes : (Capacity more than 14,000 million litres) Chambarampakkam, Madurantakam and Red Hills lakes (Chingleput District); Veeranam Tank (South Arcot District); Kaveripuk (North Arcot District); Ramnad and Rasimangalam Tanks (Ramanathapuram District).

TRIPURA STATE

Capital : Agartala. **Area :** 16·94 sq. kms. ; **Population :** 100,028.

Area of the State : 10,477 sq. kms. ; **Population of the State :** 1,556,342. **Density :** 149 per sq. km.; **Sex Ratio :** 943 females per 1,000 males. **Literacy :** 30·98 per cent.

Districts	Area in sq. kms.	Population
North Tripura	3,541	405,009
West Tripura	3,359	751,605
South Tripura	3,577	399,728

No. of Tehsils : 177. **No. of Towns :** 6. **No. of Villages :** 5,215.

State Boundaries : It is bound in the north-west, west, south and south-east by Bangla Desh and in the north-east by Assam and Mizoram.

State Language : Bengali.

AGRICULTURE

Over 60 per cent of the land area is forest and of the total reported area of 1·47 million hectares, only 0·24 million hectares or about 23 per cent is under crops like paddy, jute and mesta, potatoes, oilseeds, sugar-cane and cotton. The State, therefore, has to import about 30,000 tonnes of foodgrains every year. (For production figures and other details see chapter on " Food & Agriculture ".)

Sericulture : New mulberry centres have been started at Ganganagar and Udaipur and one centre for *muga* at Panisagar.

Power Development : The installed capacity is 15 MW. with a firm availability of 7 MW. Three major sub-stations at Udaipur, Agartala and Dharmanagar will add to the power availability.

Industry : The following projects in the large and medium industries sector have been taken up for implementation.

Jute Mill : Tripura Jute Mills Ltd. with an authorised capital of Rs. 20·00 million was expected to go into production by March, 1978. The mill, with a capacity to produce 13,500 tonnes of sacking and packing sheets every year would employ 2,000 persons.

Paper Mill : At Fatikroy near Kumarghat in North Tripura District. The project will create employment opportunity for about 12,000 persons on completion.

Village and Small Industries : A number of units to manufacture aluminium utensils, steel furniture, washing soap, stainless steel, rubber solution, grease, phenyle, leather goods, polythene tubular film, fruit canning, candle, oil mill, roofing tiles, chalk, crayons, pharmaceuticals, fountain pen ink, hair oil, ice, wooden furniture, saw mill, storage battery, umbrella handle, ready made garments, spun pipe, wire nail, truck and bus body building, printing press, book binding and manufacture of exercise books, rice mill, cotton ginning mill, steel trunks, buckets, spray painting, silvering of mirror are in operation. A steel re-rolling mill with a capacity of about 6,000 m.t. of rolled steel products, such as rods, bars, and light angle has been established at Agartala.

At Arundhutinagar, Agartala and Udaipur and at the carpentry and blacksmithy units at Teliamura and Dharmanagar steel furniture, hospital furniture, jeep's trailor, overhead sheet metal, tanks, gates and grill, fabricated steel structures, wooden furniture, file boards, leather footwear, agricultural implements, artistic and decorative products of handloom and handicrafts etc. are manufactured.

Six pilot centres on handloom industry have been set up at Dharmanagar in North Tripura District, Khowai, Gandhigram and Brajapur in West Tripura and Jolaibari (Udaipur) and Jolaibari (Belonia) in South Tripura Districts. These centres will undertake production of certain varieties of improved designs.

There are about 100,000 weavers in Tripura who are working on about 96,000 looms. The annual production of handloom fabrics is worth about Rs. 20·00 million.

Govt. of India has recently approved an export oriented handloom development scheme for Rs. 4·2 million for Tripura.

The Khadi and Village Industries Board have established *ambar charkha* units, *gobar* gas plants, carpentry, blacksmithy units, safety match unit, *ghani* oil unit in the State.

Tea Industry : Tea plantations in Tripura cover an area of about 4·930 hectares and their annual production of processed tea is approximately 2·98 million kgs. The area under tea constitutes about 2·03 per cent of the total cultivated area.

Industrial Development Agencies: The Tripura Small Industries Corporation Limited, Tripura ; The Tripura Handloom and Handicrafts Development Corporation, Tripura ; Tripura Khadi and Village Industries Board, Tripura.

Labour : No. of trade unions on register : 56 ; no. of unions submitting returns : 22 ; total membership of trade unions submitting returns : 8,730 ; no. of factories : 62 ; total no. of workers (1971 census) : 432,463 ; workers as per cent of total population : 27·93 ; cultivators : 235,292 ; agricultural labourers : 86,350 ; other workers : 114,531 ; non-workers : 1,122,026.

Industrial Disputes (1975-76) : No. of industrial disputes : 120.

Employment Exchange (Dec. 1976) : No. of registrations : 9,360 ; no. of vacancies notified : 1,201 ; no. of candidates placed : 418 ; no. on the waiting list : 52,057.

Total no. of employees was 51,968 (5,855 private sector and 46,113 public sector) as in September, 1974.

PUBLIC HEALTH

Hospitals : 11 ; primary health centres : 27 ; dispensaries : 108 ; doctors : 218 ; compounders : 198 ; nurses : 411 ; total no. of beds : 1,213 ; ayurvedic dispensaries : 2 ; homoeopathic dispensaries : 7 ; antinatal clinic : 1 ; eye clinic : 1 ; chest clinic : 1 ; leprosy control unit : 1 ; dental clinic : 1 ; E.N.T. clinic : 1 ; V.D. and skin disease clinics : 2 ; psychiatric clinic : 1 ; orthopaedic clinic : 1 ; S.E.T. centres and sectors : 46 ; cardiac clinic : 1.

EDUCATION (1976-77)

Category	No. of institutions	Students
Nursery including balwadi centres	566	25,986
Primary/basic & non-basic schools	1,537	143,601
Middle basic & non-basic schools	278	69,961
High and higher secondary schools	133	52,652
Colleges for general education ..	6	5,200
Colleges for professional & technical education	9	1,182
Social education centres	852	16,062

Students in other categories (Enrolment): Agriculture : 31 ; nursing : 80 ; industrial training : 546 ; physical education : 2,192 ; social service: 90 ; blind students : 49 ; deaf & mute students : 40 ; students for compounders, course : 5.

Technical Education : Students for engineering : 236 ; students for polytechnic : 136 ; students in music college : 373.

COMMUNICATIONS

Total number of vehicles as on March 31, 1977 : 6,645.

Motor cycles : 1,014 ; autorickshaws : 104 ; jeeps : 479 ; private motor cars : 2,018 ; trucks : 2,094 ; buses : 342 ; trailors : 473 ; vans : 75 ; tractors : 46.

Roads (March 31, 1976) : Length of motorable roads (excluding National Highways) : 199·6 kms. ; surfaced roads : 1,420 kms. ; unsurfaced roads : 2,643 kms.

National Highway : Assam-Agartala road ; State Highway : Agartala-Udaipur-Sabroom road — Length : 136 kms.

Railways : The North-east Frontier Railway has three stations in Tripura, the last being Dharmanagar.

PRESS

Leading Dailies : *Ganaraj* (Bengali), Agartala ; *Jagaran* (Bengali), Agartala ; *Dainik Sambad* (Bengali), Agartala ; *Bhabi Bharat* (Bengali), Agartala ; *Janapad* (Bengali), Agartala ; *Vivek* (Bengali), Agartala ; *Tripura Prakash* (Bengali), Agartala ; *Nagarik* (Bengali), Agartala ; *Pramod Barta* (Bengali), Agartala ; *Dibantar* (Bengali), Agartala ; *Ganadut* (Bengali), Dharmanagar ; *Syandan* (Bengali), Agartala : *Tripura Darpan* (Bengali), Agartala ; *Sundar Bharat* (Bengali), Agartala.

Rivers : The Gumti, The Khowai, The Manu, The Haorah, The Muhuri.

Annual Plan (1977-78) : A sum of Rs. 220 million has been earmarked for the Annual Plan.

UTTAR PRADESH STATE

CAPITAL: Lucknow. **Area :** 103.60 sq. kms.; **Population:** 813,982.

Area of the State : 294,413 sq. kms.; **Population of the State :** 88,341,144. **Density :** 300 per sq. km. ; **Sex Ratio :** 879 females per 1,000 males ; **Literacy :** 21·70 per cent.

No. of Tehsils : 237 ; No. of Towns : 325 ; No. of Villages : 112,561.

Districts	Area (Sq. Km.)	Population (1971 Census)
Agra	4,816	2,308,638
Aligarh	5,024	2,111,829
Allahabad	7,255	2,937,278
Almora	7,023	750,038
Azamgarh	5,744	2,857,484
Bahraich	6,871	1,726,972
Ballia	3,183	1,588,935
Banda	7,645	1,182,215
Bara-Banki	4,422	1,635,593
Bareilly	4,125	1,779,867
Basti	7,309	2,984,090
Bijnor	4,852	1,490,185
Budaun	5,158	1,645,967
Bulandshahr	4,895	2,073,343
Chamoli	9,125	292,571
Dehra Dun	3,088	577,306
Deoria	5,400	2,812,350
Etah	4,449	1,570,925
Etawah	4,327	1,447,702
Faizabad	4,427	1,927,281
Farrukhabad	4,349	1,556,930
Fatehpur	4,168	1,278,254
Garhwal	5,440	553,028
Ghazipur	3,381	1,531,654
Gonda	7,331	2,302,029
Gorakhpur	6,316	3,038,177
Hamirpur	7,192	988,215
Hardoi	6,012	1,849,519
Jalaun	4,549	813,490
Jaunpur	4,040	2,005,434
Jhansi & Lalitpur	10,069	1,307,058
Kanpur	6,121	2,996,232
Kheri	7,691	1,486,590
Lucknow	2,528	1,617,846
Mainpuri	4,254	1,445,534
Mathura	3,797	1,290,307
Meerut & Ghaziabad ..	5,944	3,366,953
Mirzapur	11,301	1,541,088
Moradabad	5,946	2,428,971
Muzaffarnagar	4,245	1,802,289
Naini Tal	6,792	790,080
Pilibhit	3,504	752,114
Pithoragarh	7,217	313,747
Pratapgarh	3,730	1,422,707
Rae Bareli	4,603	1,510,812
Rampur	2,372	901,209
Saharanpur	5,526	2,054,834
Shahjahanpur	4,581	1,286,104
Sitapur	5,738	1,884,400
Sultanpur	4,424	1,642,928
Tehri Garhwal	4,421	397,385
Unnao	4,586	1,484,393
Uttarkashi	8,016	147,805
Varanasi	5,091	2,852,459

Figures for Lalitpur and Ghaziabad districts are included in the districts of Jhansi and Meerut respectively.

Names of the district headquarters are the same as the names of the districts except for the districts whose headquarters are given in brackets : Farrukhabad (Fatehgarh) ; Garhwal (Pauri) ; Jalaun (Orai) ; Tehri Garhwal (Narendranagar).

Major Cities : With population over 100,000.

Kanpur : 1,273,016 ; Lucknow : 826,246 ; Agra : 637,785 ; Varanasi : 582,915 ; Allahabad : 513,997 ; Meerut : 367,821 ; Bareilly : 326,127 ; Moradabad : 272,355 ; Aligarh : 254,008 ; Gorakhpur : 230,701 ; Saharanpur : 225,698 ; Dehradun : 199,443 ; Jhansi : 198,101 ; Rampur : 161,802 ; Shahjahanpur : 144,058 ; Mathura : 140,468 ; Firozabad : 133,945 ; Ghaziabad : 128,036 ; Muzaffarnagar : 114,859 ; Farrukhabad-cum-Fatehgarh : 111,373 ; Faizabad : 109,765 ; Mirzapur-cum-Vindhyachal : 105,920.

State Boundaries : It is bound by Tibet and Nepal in the north, Himachal Pradesh in the north-west, Punjab in the west, Rajasthan in the south-west, Madhya Pradesh in the south and Bihar in the east.

State Language : Hindi.

AGRICULTURE

(See chapter on 'Food & Agriculture' for area and production of different crops.)

Land Ceiling : The ceiling area was fixed at 7·30 hectares of irrigated land for a tenure-holder having a family of five members with two additional hectares of irrigated land for each additional member in excess of five, and two hectares of irrigated land for each landless adult son subject to the condition that the additional area so allowed shall not exceed six hectares.

For the purpose of determining ceiling area, the land has been classified into two broad categories — irrigated and unirrigated. One and a half hectares of unirrigated land has been deemed to be equal to one hectare of irrigated land. For grove land and *usar* land, it has been provided that two and a half hectares of grove land or *usar* land shall be equal to one hectare of irrigated land.

Irrigation & Power Projects : See the chapter on 'Irrigation and Power Projects'.

The total number of electrified villages were 32,634 till December, 1977 and generation of electricity was 2,875 M.W.

INDUSTRIES

Sugar, cotton textiles, edible oils, hydrogenated oil, industrial machinery, machine tools, electrical machinery and electrical accessories, radio sets and transistors, television sets, cycle and cycle parts, foundries, leather tanning and leather goods, woollen textiles, jute textiles, glass and glass products etc.

Small Industries : During 1974 small scale units numbering 4,015 produced goods worth Rs. 3,630 million and provided employment to 133,136, as against 1,060 such units in 1956, which produced goods worth Rs. 244·6 million and provided employment to 27,550 persons. At the end of 1968, there were 18,660 registered small scale units. During the year 1975-76, the number of registered units rose to about 38,626. A new scheme of industrial complexes has been introduced in 1976-77, under which 32 industrial complexes are being developed by various corporations and the Directorate of Industries.

Industrial Development Agencies : See chapter on 'State Govt. Undertakings'.

Industrial Estates : There are 61 industrial estates (excluding 10 Harijan industrial estates) with 900 sheds and 2,128 plots. Out of these 864 sheds and 1,656 plots have been allotted to the entrepreneurs. 674 sheds and 623 plots are engaged in production. It is estimated that over 9,000 persons are employed in these estates and the annual production is Rs. 245·0 million. Functional estates for catering exclusively to electronics goods have started working.

Handloom Industry : Handloom industry is the largest decentralised cottage industry in rural and semi-urban areas, and is maintained by 1·5 million artisans belonging to weaker sections of society. The annual production of handloom cloth stands at about 450 million metres both within and outside the co-operative fold.

Dairy : In 1972-73 there were 6·7 million cows and 6·5 million buffaloes out of which 2·9 million cows and 3·4 million buffaloes were in lactation.

A cow gives 2 litres of milk per day and a buffalo 3 litres.

Milk Processing Plants : The processing capacity of the dairy units established under co-operative sector is 277,000 litres per day. Besides new dairies are coming up at Allahabad, Faizabad, Meerut and Varanasi. They are expected to be commissioned by the end of 1978 when the processing capacity will go up to 524,000 litres of milk per day.

In addition to these, there are 4 big private sector plants at Aligarh, Etah, Muzaffarnagar and Saharanpur with a processing capacity of 330,000 litres of milk per day.

Labour : Total no. of registered factories (1975) : 4,784 ; No. of working factories : 4,625 ; estimated average daily no. of workers employed : 416,532.

Total no. of workers (1971 Census) : 27,334,455 ; workers as per cent of total population : 30·94 ; cultivators : 15,697,866 ; agricultural labourers : 5,453,829 ; other workers : 6,182,760 ; non-workers : 61,006,689.

No. of Trade Unions as on December 31, 1976 : 1,774.

Industrial Disputes : During 1976 there were 56 strikes/lock-outs involving 17,748 workers resulting in a loss of 1,211,961 man-days.

EDUCATION

Schools 1976-77 : Junior Basic : No. of junior basic schools : 65,331 ; total no. of students : 11,554,573 ; no. of boys : 7,304,571 ; no. of girls : 4,250,002 ; no. of teachers : 236,740.

Senior Basic : No. of schools : 10,346 ; total no. of students : 1,516,296 (boys : 1,203,243 ; girls : 313,053) ; no. of teachers 58,009.

Higher Secondary : No. of higher secondary schools : 4,477 ; total no. of students : 2,812,000 ; no. of boys : 2,247,894 ; no. of girls : 564,106 ; total no. of teachers : 101,718.

Colleges : No. of degree colleges : 366 ; no. of students : 268,051 ; no. of teachers : 11,904 ; polytechnics : 42.

Universities: With the year of establishment in brackets : *Acharya Narendra Deva University of Agriculture*, Faizabad (1974–75) ; *Agra University*, Agra (1927); *Aligarh Muslim University*, Aligarh (1921) ; *Allahabad University*, Allahabad (1887) ; *Awadh University*, Faizabad (1975) ; *Banaras Hindu University*, Varanasi (1916) ; *Bundelkhand University*, Jhansi (1975) ; *Chandrashekhar Azad University of Agriculture and Technology*, Kanpur (1974–75) ; *Garhwal University*, Srinagar (Garhwal) (1973) ; *Gorakhpur University*, Gorakhpur (1957) ; *Govind Ballabh Pant University*, Pantnagar (1960) ; *Gurukul Kangri*, Hardwar (1962) ; *Kanpur University*, Kanpur (1966) ; *Kashi Vidyapith*, Varanasi (1963) ; *Kumaon University*, Nainital (1973) ; *Lucknow University*, Lucknow (1921) ; *Meerut University*, Meerut (1966) ; *Rohilkhand University*, Bareily (1975) ; *Roorkee University*, Roorkee (1949) ; *Varanaseya Sanskrit University*, Varanasi (1958).

Note : Aligarh and Banaras are Central Universities under the Govt. of India.

PUBLIC HEALTH

Total no. of hospitals in 1976 : allopathic including P.H.C. : 2,844 ; ayurvedic/unani : 982 ; beds (allopathic) : 48,525 ; doctors in Government service : 5,142 ; nurses and mid-wives : 10,704 ; T.B. control centres : 52 ; T.B. sanatoria : 4 ; T.B. clinics on G/I pattern : 10 ; total no. of beds in T.B. sanatoria and clinics : 3,262.

Medical colleges : 9 ; total no. of seats in Medical colleges : 908.

COMMUNICATIONS

(As on March 31, 1977) Vehicles on road under U.P. State Transport Corpn. : buses 4,340 ; trucks 108 ;

taxis 42. Vehicles other than State Transport Corpn. buses: 7,367; lorries and trucks including private carriers: 23,086; taxis: 4,509; cars: 37,183; motor cycles: 131,621.

Length of Motorable Roads (1976-77) : Total mileage of metalled roads under P.W.D.: 34,076 kms.; total route length 183,240 kms.; no. of routes operated: 1,417; daily distance covered (kms.) during 1975–76: 850,181.

Railways : The total length of railway lines passing through the State, as on 31 March, 1975 is 8,657·08 kms. Of these 5,385·64 kms. are broad-gauge, 3,269·43 kms. are metre-gauge and 2·01 kms narrow-gauge. The route-kilometerage of railway lines, railway-wise and gauge-wise are; Central Railway, broad gauge 956-55 kms. and narrow gauge 2·01 kms.; Eastern Railway, broad gauge 264·78 kms.; Northern Railway, broad gauge 4,092·99 kms. and metre gauge 0·13 kms.; North Eastern Railway, metre gauge 3,232·19 kms. and Western Railway, broad gauge 71·32 kms. and metre gauge 37·11 kms.

Press (1975) : Leading Dailies with their circulation figures.

English : Daily Action — Kanpur, 12,301; National Herald — Lucknow & Delhi, 48,898; Northern India Patrika — Allahabad, 36,792; Pioneer — Lucknow, 17,360.

Hindi : Aj — Varanasi, 39,087; Amar Ujala — Agra, 36,667; Bareilly, 15,596; Bharat — Allahabad, 12,506; Daily Jagran — Kanpur, 51,596; Daily Jagran — Jhansi, 14,475; Gandiwa — Varanasi, 13,463; Navjivan — Lucknow, 12,589; Swatantra Bharat — Lucknow, 29,664; Sainik — Agra, 14,039.

Urdu : Daily Siyasat Jadid — Kanpur, 11,320; Qaumi Awaz — Lucknow, 9,603.

GENERAL

Annual Plan : The State expects an allotment of Rs. 7,500 million towards the Annual Plan expenditure for 1978-79 against Rs. 6,750 million during 1977-78.

Housing : No. of houses constructed till March, 1977: (*a*) Under subsidised Industrial Housing Scheme: 30,891; (*b*) Low Income Group Housing Scheme: 13,090; (*c*) Middle Income Group Housing Scheme: 2,248; (*d*) Slum Clearance Housing Scheme: 774. Besides the above schemes house sites have been provided for 1,212,000 landless labourers.

Important Rivers : The Ganga, the Yamuna and the Ghaghara.

Other rivers : The Gomati, the Kali, the Sarda, the Rapti, the Gandak, the Sone, the Ramganga, the Kosi, the Tons, etc.

Minerals : The minerals found include limestone, dolomite, magnesite and soapstone, coal, copper, gypsum, glass-sand, marble, phosphorite morrum sand, diaspore and prophyllite and marl.

Barytes, andalusite and bauxite have been found in Dehra Dun, Mirzapur and Banda districts, respectively. A potential reserve of nearly three million tonnes of non-plastic fire-clay has been explored in Mirzapur district. Some other minerals of less economic value found are Vindhyan sandstone, *kankar*, reh, saltpetre and sand.

The mineral deposits are concentrated in eight northern and six southern districts, *viz.*, Uttar Kashi, Chamoli, Pithoragarh, Tehri Garhwal, Garhwal, Almora, Naini Tal, Dehra Dun, Agra, Jhansi, Hamirpur, Banda, Allahabad and Mirzapur.

WEST BENGAL STATE

CAPITAL: Calcutta. **Area:** 104 sq. kms.; **Population:** 3,148,746.

Area of the State : 87·853 sq. kms.; **Population of the State :** 44,312,011. **Decennial Population Growth Rate** (1961–71): 27·24 per cent; **Density :** 504 per sq. km.; **Sex Ratio** — 892 females per 1,000 males; **Proportion of Urban Population to Total :** 24·59 per cent; **Literacy Rate :** 33·05 per cent (Males: 42·84 per cent; females 22·08 per cent); Work participation rate: 28·37 per cent (Males: 48·89 per cent; Females: 5·36 per cent).

Major Cities (with population over 100,000): Calcutta (with 71 constituent units), 7,005,362; Durgapur, 207,232; Kharagpur, 161,911; Asansol, 157,388; Burdwan, 144,970.

No. of Villages : 38,550.

State Boundaries : The State is bounded by Sikkim and Bhutan in the north, Assam and Bangla Desh in the east, Bay of Bengal in the south and Orissa, Bihar and Nepal in the west.

State Languages : Bengali and English.

AGRICULTURE : Rice, jute and wheat are the main crops produced in West Bengal. The area sown under rice is 5·426 million hectares, jute is 3·347 million hectares and wheat 5·653 million hectares and the production is 6·84 million tonnes, 2·686 million tonnes and 11·872 million tonnes respectively in 1975–76.

Land Ceiling : The ceiling for a family consisting of not more than 5 members is 5·001 hectares in irrigated areas and 7·006 hectares in non-irrigated areas. The retainable limit is increased by 0·502 hectare in irrigated and 0·697 hectare in non-irrigated area for each additional member in excess of 5, the maximum retainable area being 7·000 hectares in irrigated and 9·809 hectares in non-irrigated areas for a family consisting of 9 members or more. The ceiling for an adult unmarried person or the sole surviving member of a family is 2·502 hectares in irrigated and 3·503 hectares in non-irrigated areas.

Districts		Headquarters	Area in sq. kms.	Population
Darjeeling	..	Darjeeling	3,075	781,777
Jalpaiguri	..	Jalpaiguri	6,245	1,750,159
Cooch-Behar	..	Cooch-Behar	3,386	1,414,183
West Dinajpur	..	Balurghat	5,206	1,859,887
Malda ..	..	English Bazar	3,713	1,612,657
Murshidabad	..	Berhampur	5,341	2,940,204
Nadia ..	..	Krishnagar	2,926	2,230,270
24 Parganas	..	Alipur	13,796	8,449,482
Howrah ..	..	Howrah	1,471	2,417,286
Calcutta*	..	Calcutta	104	3,148,746
Hooghly	..	Chinsura	3,145	2,872,116
Burdwan	..	Burdwan	7,028	3,916,174
Birbhum	..	Suri	4,550	1,775,909
Bankura	..	Bankura	6,881	2,031,039
Midnapur	..	Midnapur	13,724	5,509,247
Purulia ..	..	Purulia	6,259	1,602,875

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* Calcutta district comprises of Calcutta city only.

Upto August, 1976, 254,547·50 hectares of agricultural and non-agricultural land had been distributed to cultivators and for homesteads. 941,298 peasants had been given land for farming.

Forests : Total forest area of West Bengal comprises of 13·4 per cent of the total geographical area of the State.

The types of timber found in the forests are : *Shorea robusta, tactona grandis, michelia champaka, schima wallichi, Chukrasia tabularis, betula species, abies, densa, oaks, pinus*, etc.

For development of the forests the Govt. has allocated Rs. 23·7 million. The programme aims at rehabilitating diminished parts of the forest extending over 1,000 hectares with new quick growing species.

Irrigation : Area irrigated by Govt. canals under the minor, major and medium irrigation schemes of West Bengal was 957·60 and 914·24 thousand hectares in the years 1975-76 and 1974–75 respectively. (For Irrigation projects see chapter on 'Irrigation & Power Projects'.)

Power Production : Electricity generation in 1975–76 showed a rise over 1974–75. The total quantity of electricity generated in 1975–76 was 6,070·0 million kwh as against 5,417·9 million kwh in 1974–75. (For Power Projects see chapter on 'Irrigation & Power Projects'.)

INDUSTRIES : The State's industrial output is about 20 per cent and coal output about 30 per cent of the country's total.

The number of registered working factories increased from 5,688 in 1974 to 6,626 in 1975.

Production : The major industries and their production during 1975 were : Jute textiles — 0·97 million tonnes ; cotton yarn — 54·5 million kgs. ; cotton cloth — 204 million metres ; pig iron — 1·88 million tonnes ; steel ingots — 1·73 million tonnes ; finished steel (excluding unregistered re-rollers) — 1·14 million tonnes ; tea — 111·3 million kgs. ; sugar — 3·8 thousand tonnes ; paper & paper board — 0·14 million tonnes ; matches — 4·601 million gross boxes ; vanaspati — 0·31 million tonnes ; electric fans — 827·4 thousand nos. ; sewing machines — 57·6 thousand nos.

Small Scale Industries : The number of small scale industrial units which voluntarily registered with the Directorate of Cottage & Small Scale Industries is 90,974 with an estimated number of 638,000 workers at the end of 1975–76.

INDUSTRIAL DEVELOPMENT AGENCIES

West Bengal Industrial Development Corporation Ltd. (23/A, N. Subash Rd., Calcutta 700001).

West Bengal Financial Corporation (4, Kiron Sankar Roy Rd., Calcutta 700001).

West Bengal Small Industries Corporation Ltd. (6A, Raja Subodh Mullick Sq., Calcutta 700013).

West Bengal State Warehousing Corporation (20, Chandni Chowk St., Calcutta 700013).

Besides these the **Industrial Finance Corporation of India** (Bharat Petroleum House, Connaught Circus, Annexe II, New Delhi 100001, having its branch office in Calcutta) ; the **Board of Industries,** under the **Cottage and Small-Scale Industries Department,** West Bengal ; **State Bank of India ; Life Insurance Corporation of India ; National Small Industries Corporation of India ; Industrial Reconstruction Corporation of India** (having headquarters in Calcutta) etc. also accord financial assistance to industrial units.

LABOUR (1975): The average daily number of workers in the registered working factories was 839,000 in 1975.

Average no. of employees under different heads : Factories : 839,000 ; coal mines : 135,000 ; plantations : 220,000 ; State Govt. : 290,000 ; Central Govt. : 427,000 ; quasi-Govt. : 322,000 ; other sectors : 458,000. People in agriculture : (cultivators & agricultural labourers) 7,227,108 (1971 census).

Employment Exchanges : The total number of persons placed in employment during 1975 was 138,000. During the year 1975, 463,700 applicants were registered at the different employment exchanges as against 420,300 in 1974.

No. of Unions (1975): No. of unions registered—348 ; membership — 48,703.

Accidents (1972) : Fatal — 91 and non-fatal — 80,000 (approx.).

Industrial Disputes (1975) : Number of disputes reported — 6,552. Number of strikes & lock-outs — 279. Number of persons involved in strikes and lock-outs — 365,617. Number of closures — 98. Number of persons involved in closures — 11,194. Number of *gheraos* — 16.

EDUCATION

	No. of schools (1975–76)
Primary	40,740
Junior High	3,145
High & Higher secondary and multipurpose	4,556
No. of universities	8
No. of colleges for general education	253
No. of polytechnics	29
No. of medical colleges	6

Universities: The following are the names and addresses of the universities with number of students respectively : **University of Burdwan,** Rajbati, Burdwan 713101 : 36,067 ; **University of Calcutta,** Senate House, Calcutta 700012 : 196,257 ; **Jadavpur University,** Calcutta 700032 : 4,760 ; **University of Kalyani,** Kalyani 741235 : 2,074 ; **University of North Bengal,** Rajaram-Mohanpur, Darjeeling : 26,191 ; **Rabindra Bharati University,** 6/4, Dwarkanath Tagore Lane, Calcutta 700007 : 3,854 ; **Visva-Bharati,** Santiniketan 731235 : N.A.

PUBLIC HEALTH (1975) : No. of hospitals — 304 ; no. of beds — 39,097.

No. of clinics — 684 ; no. of beds — 51.

No. of health centres — 901 ; no. of beds — 7,790.

No. of dispensaries — 436.

Family Planning Centres (1975-76) : Rural : 335 ; urban : 72 ; urban voluntary F.P. centres : 24 ; rural F.P. sub-centres : 1,005.

Calcutta Tramways Company Ltd.: During 1975-76 the number of passengers carried by tram cars was 2·80 million and total earnings stood at Rs. 42·0 million.

Roads : According to latest available statistics the road length per hundred square kilometres of geographical area was 64 kms. at the end of 1974–75.

The length of extra-municipal roads maintained by PWD — 15,562 kms. (13,534 kms. surfaced and 2,028 kms. unsurfaced) in 1974.

Press: Leading dailies with their circulation figures (1975).

English : Amrita Bazar Patrika 103,194; Hindustan Standard 54,667; Statesman (Calcutta and New Delhi) 185,633.

Bengali : Ananda Bazar Patrika 290,086; Jugantar 190,050.

Hindi : Sanmarg 27,860.

GENERAL : Rivers : The Ganga, the Domoda, the Bhagirathi, the Hooghly, the Mayurakshi, the Rupnarayar, the Ajoy, the Kasai, the Teasta and the Torsa.

Housing : Number of houses constructed under different schemes and expenditure incurred upto 1975-76 respectively were: Integrated Subsidised Housing Scheme — 17,008 flats at Rs. 94·07 million; Low Income Group Housing Scheme — 748 houses at Rs. 9·83 million; Subsidised Housing Scheme for Plantation Workers — 2,911 flats at Rs. 6·77 million; Middle Income Group Housing Scheme — 2,743 flats at Rs. 53·72 million; Rental Housing Scheme for State Govt. Employees — 5,277 flats at Rs. 82·64 million.

Annual Plan (1978-79) : West Bengal's outlay for 1978–79 Plan is Rs. 3,710 million against Rs. 3,109·20 million for 1977–78.

Communications (1975-76):

	Route length (Km)	No. of vehicles in operation	Average no. of persons employed per day	Total passengers served ('000)	Total earnings (Rs. in '000)
Calcutta State Transport Corporation	518	1,494	12,090	271,948	57,489
North Bengal State Transport Corporation	19,114	190	4,127	26,003	25,921
Durgapur State Transport Board	3,483	54	875	N.A.	6,455

HOUSING

BACKGROUND : There were 93 million houses used for residential purposes partially or fully to house 548 million people during 1971. These included 32·2 million semi-*pucca* houses and 34·8 million *katcha* houses.

The total number of households in 1970 was 97·0 million — 78·0 million in rural areas and 19·0 million in urban areas. Their numbers rose to 103·1 million at the beginning of the Fifth Five Year Plan in 1974 — 81·4 million in rural areas and 21·7 million in urban areas. It is estimated that the growth of population alone demands 2 million dwelling units every year.

Shortage : The shortage of housing units at the beginning of the Fifth Plan on the criterion that (*i*) every household in urban areas should have a *pucca* house or semi-*pucca* house; and (*ii*) every household in rural areas should have a *pucca*, semi-*pucca*, or serviceable *katcha* house has been estimated by the National Building Organisation at 15·6 million units — 11·8 million in rural areas and 3·8 million in urban areas respectively at the beginning of the Fifth Five Year Plan.

Rate of Construction : The net annual addition to housing stock is estimated at 1·67 million units — 0·60 million units in urban areas and 1·07 million units in rural areas.

House Sites: It is estimated that nearly 11·4 million families are eligible for allotment of house-sites under the scheme of provision of house-sites to landless workers in rural areas. Upto the end of August, 1977, about 7·3 million families were allotted house-sites.

The Problem : In the last decade there has been a large influx into urban areas. Six of the 9 large urban agglomerations, each having more than a million population, recorded between 43·5 per cent and 63 per cent increase in population during 1961-71. Towns with population of 100,000 recorded a 52 per cent increase during the same period. Whilst on an all India basis the urban population increased at the rate of 38 per cent.

Growth of population in larger urban centres in India

Urban Centres	Population in 1971 (in millions)	Increase over 1961 (in percentage)
Calcutta (U.A.)	7·03	22·57
Gr. Bombay (U.A.) ..	5·97	43·80
Delhi (U.A.)	3·65	54·57
Madras (U.A.)	3·17	63·02
Hyderabad (U.A.) ..	1·80	43·83
Bangalore (U.A.).. ..	1·65	37·82
Ahmedabad (U.A.) ..	1·74	44·40
Kanpur (U.A.)	1·28	31·32
Pune (U.A.)	1·14	43·53
Population of cities of more than 100,000 population in India ..	53·38	51·98
Total urban population in India.. .. , ..	109·09	38·22

U. A. Urban Agglomeration.

Source : Census of India — 1971 — General population tables — series 1 — India Part II-A (1).

Overcrowding: The influx into urban areas has caused an acute shortage of housing facilities, resulting in overcrowding.

The average number of persons per room in some larger cities of India are given in the table below :

Cities	Average No. of persons per room 1961	1971
Calcutta (M.C.)	3·03	3·40
Greater Bombay	3·79	3·99
Delhi (M.C.)	3·18	3·04
New Delhi (M.C.)	2·79	2·76
Madras (M.C.)	2·93	3·01
Hyderabad	2·41	2·81
Ahmedabad (M.C.)	3·11	3·22
Bangalore (M.C.)	3·07	2·58
Kanpur (M.C.) and Railway Colonies	2·75	2·94
Pune	2·96	3·21

M. C. Municipal Corporations.

Source : 1. Census of India — 1961 — Housing and establishment tables Part IV(B). 2. Census of India — 1971 — Housing tables Part IV (B).

Household Incomes: Family incomes, naturally, play a great part in a family's ability to acquire or afford a home. Incomes of families in urban areas are much higher than families in rural areas. For instance in Greater Bombay 56 per cent families have an income of less than Rs. 350 a month and 28 per cent less than Rs. 600 a month.

In the Asansol Industrial area of West Bengal 80 per cent families earned less than Rs. 350 a month and 19 per cent less than Rs. 600.

Household Expenditure: It is observed that an increasing amount of a family's income goes towards the purchase of food alone. A low income family's inability to pay for shelter can be seen from the expenditure pattern of the various income groups compiled by the Town and Country Planning Organisation, New Delhi. The survey covers South Delhi and is deemed to be representative for all major urban areas of the country.

Cooperative Housing : It is estimated that upto the end of June 1977, 28,900 co-operative housing societies with 1·8 million members would have constructed 440,000 houses.

EXPENDITURE PATTERN OF VARIOUS INCOME GROUPS

Annual Income Groups	Av. Income per household in Rs.	Total expenditure in Rs.	Expenditure as % of income	Expenditure on food as % of total expenditure
Less than Rs. 2,500	1,996	2,190	109·7	72·2
Rs. 2,501 — 5,000	3,900	3,683	94·4	68·2
Rs. 5,001 — 7,500	6,288	5,302	84·3	62·9
Rs. 7,501 — 20,000	8,854–17,625	6,124–9,109	69·2–51·7	60·5–52·8
Rs. 20,000	22,303–48,656	10,335–14,620	46·3–30·0	48·3–46·6

HOUSING SCHEMES : 119,500 houses had been constructed throughout the country under different social housing schemes and 1·5 million house-sites had been allotted to landless families during 1977. These schemes fall under two sectors — Central and State. Following are the details of some of the important schemes.

(a) Central Sector Schemes:

Subsidised Housing Scheme for Plantation Workers : This scheme was transferred from the State to the Central Sector in 1970. The Central Government provides 50 per cent loan and 37·5 per cent grant for construction of homes to be occupied by the plantation workers free of rent.

Up to the end of December, 1977, 19,182 houses had been sanctioned and 9,732 houses completed.

(b) State Sector Schemes:

Scheme for Provision of House-sites to Landless Workers in Rural Areas : The scheme aims at providing house-sites, free of cost, to families of landless workers in rural areas, who do not own a house-site or a built-up house or a hut on land of their own. The scheme in the State sector with effect from April 1, 1974, now forms part of the National Programme of Minimum Needs. It is being implemented in 18 States and 6 Union Territories. The maximum size of a house-site to be allotted to a landless family is not to exceed 83·613 square mtrs. Upto November, 30, 1977, 7,336,010 families had been allotted house-sites (including undeveloped sites).

Integrated Subsidised Housing Scheme for Industrial Workers and Economically Weaker Sections of the Community : Projects for the construction of 250,198 houses at a cost of Rs. 1,245·1 million were sanctioned of which 185,350 were completed up to the end of December, 1977.

Low Income Group Housing Scheme : The scheme provides for loan assistance up to 80 per cent of the approved cost of a house subject to a maximum of Rs. 14,500, to persons whose annual income does not exceed Rs. 7,200. Construction of 411,563 houses at a cost of Rs. 2,161·12 million had been sanctioned of which 324,179 houses were completed upto the end of December, 1977.

Village Housing Projects Scheme : Under this scheme loans are granted to villagers for construction of a house to the extent of 80 per cent of the cost or a maximum of Rs. 5,000. Loans are also granted to improve the environmental hygiene of the village. Up to the end of December, 1977, construction of 98,571 houses at a cost of Rs. 242·32 million were sanctioned out of which 66,053 houses were completed.

Middle Income Group Housing Scheme : Loans are given to individuals earning between Rs. 7,201 — Rs. 18,000 per annum. Loans are restricted to 80 per cent of the cost of construction subject to a maximum of Rs. 27,500. Up to the end of December, 1977, loans amounting to Rs. 1,045·83 million for the construction of 49,791 houses were sanctioned of which 39,448 houses were completed.

Rental Housing Scheme for State Government Employees : Construction of 36,204 houses was sanctioned and 30,220 were completed upto the end of December, 1977.

Land Acquisition & Development Scheme : Financial assistance is given to States for large scale acquisition and development of land to make plots available at reasonable prices to house builders and providing civic amenities. About 34,173·2 hectares of land had been sanctioned for acquisition and development. Of this 12,993·2 hectares had been acquired and 6,624·8 hectares developed upto December, 1977.

Slum Clearance/Improvement Scheme: Upto the end of December 1977 construction of 169,523 houses had been sanctioned and 129,474 houses completed.

(c) House Building Allowances to Central Government Employees: From April, 1977 to March 1978, approval was conveyed in 13,755 cases involving Rs. 335·0 million.

Since the inception of this scheme in 1956 till March, 1978, 65,995 applications amounting to Rs. 1,344·8 million were approved.

Research: *National Buildings Organisation*, Nirman Bhavan, Maulana Azad Rd., New Delhi 110011 is engaged in documentation and dissemination of information on building science and technology to bring about improvement in quality of building construction and reduction in cost

It is also the co-ordinating agency for housing and [illegible] studies in socio-economic aspects of housing.

LIC Loan to State Governments: The Life Insurance Corpn. of India has been advancing loans to the State Govts. every year for implementation of their social housing programmes. Upto 1976-77 loan amounting to Rs. 2,373 million has been given to various State Govts. L.I.C. loan for 1977-78 was Rs. 195·00 million.

Annual Plan: Outlay on housing in 1976-77 was Rs. 998·5 million. Outlay envisaged for 1977-78 is Rs. 1,353·0 million (including Rs. 21·0 million for Plantation Workers' Housing Scheme).

Some Public Sector Undertakings:

Hindustan Prefab. Factory Ltd., Jungpura, New Delhi 110014.

National Buildings Construction Corporation Ltd., 44, Ring Rd., Lajpat Nagar III, New Delhi 110024

Housing & Urban Development Corporation Ltd., 12-A, Jamnagar House, New Delhi 110011.

CRIME STATISTICS—1974

DURING 1974 there were 1,192,277 cognisable crimes under the Indian Penal Code showing an increase of 10·7 per cent over 1973. This figure includes juvenile crime.

Crime & Population: There was an overall increase of 57·1 per cent in crime during the decade 1964-74.

Volume of crime increased steadily from 1960 to 1967. There was a marginal decrease in 1968 and 1969 after which it continued to rise once again.

Rate of crime per 100,000 population: 1964 — 162·1; 1968 — 168·7; 1969 — 161·8; 1970 — 178·8; 1971 — 174·3; 1972 — 176·5; 1973 — 187·9; 1974—203·4.

Murder: State-wise break-up with 1970 figures in brackets:

Andhra Pradesh: (1,092) 1,163; Assam (500) 498; Bihar (1,523) 1,946; Gujarat (734) 927; Haryana (192) 222; Himachal Pradesh (42) 60; Jammu & Kashmir (59) 86; Karnataka (694) 785; Kerala (372) 552; Madhya Pradesh (1,725) 2,002; Maharashtra (1,356) 1,695; Manipur (51) 32; Meghalaya 48; Nagaland (24) 54; Orissa (389) 453; Punjab (574) 659; Rajasthan (655) 730; Tamil Nadu (890) 1,030; Tripura (28) 44; Uttar Pradesh (3,502) 4,586; West Bengal (1,140) 816. **Total** (15,542) 18,388.

Union Territories: Andaman and Nicobar (8) 4; Arunachal Pradesh 8; Chandigarh (12) 10; Dadra and Nagar Haveli (5) 2; Delhi (123) 174; Goa, Daman and Diu (14) 20; Lakshadweep (—) —; Mizoram 35; Pondicherry (4) 8. **Total** (166) 261.

Cities: Ahmedabad (25) 41; Bangalore (20) 26; Bombay (146) 184; Calcutta (157) 69; Delhi (100) 150; Hyderabad (21) 30; Kanpur (40) 71; Madras (26) 36. **Total** (535) 607.

Motives for Murder: Of the 18,649 cases reported the major motivating cause of murder was personal enmity (4,080); dispute over property (3,086); sudden provocation (1,576); gains (1,378); sexual causes (1,361) and other causes (7,168).

Kidnapping and Abduction: 1970 figures given in brackets.

Andhra Pradesh (149) 185; Assam (511) 468; Bihar (581) 737; Gujarat (246) 387; Haryana (145) 126; Himachal Pradesh (57) 84; Jammu and Kashmir (190) 284; Karnataka (125) 177; Kerala (75) 79; Madhya Pradesh (970) 743; Maharashtra (543) 580; Manipur (166) 187; Meghalaya (22) 15; Nagaland (9) 19; Orissa (117) 99; Punjab (301) 272; Rajasthan (1,128) 1,285; Tamil Nadu (297) 275; Tripura (24) 19; Uttar Pradesh (3,051) 3,164; West Bengal (863) 727. **Total** (9,548) 9,924.

Union Territories: Andaman and Nicobar (1) 7; Arunachal Pradesh 4; Chandigarh (16) 17; Dadra and Nagar Haveli (—) 1; Delhi (531) 555; Goa, Daman and Diu (8) 4; Lakshadweep (1) —; Mizoram 13; Pondicherry (6) 18. **Total** (563) 619.

Cities: Ahmedabad (54) 80; Bangalore (2) 35; Bombay (178) 183; Calcutta (131) 121; Delhi (478) 538; Hyderabad (16) 41; Kanpur (154) 83; Madras (35) 27. **Total** (1,066) 1,108.

Dacoity: 1970 figures given in brackets.

Andhra Pradesh (137) 176; Assam (190) 374; Bihar (1,626) 2,994; Gujarat (56) 435; Haryana (12) 10; Himachal Pradesh (1) 10; Jammu and Kashmir (12) 9; Karnataka (81) 168; Kerala (42) 51; Madhya Pradesh (416) 487; Maharashtra (391) 683; Manipur (10) 27; Meghalaya (5) 15; Nagaland (13) 21; Orissa (104) 277; Punjab (—) 8; Rajasthan (111) 164; Tamil Nadu (94) 30; Tripura (21) 49; Uttar Pradesh (5,202) 6,392; West Bengal (1,271) 1,270. **Total** (9,795) 13,650.

Union Territories: Andaman and Nicobar (—) —; Arunachal Pradesh (—) —; Chandigarh (1) —; Dadra and Nagar Haveli (3) —; Delhi (29) 32; Goa, Daman and Diu (4) 7; Lakshadweep (—)—; Mizoram 7 —; Pondicherry (5) 1. **Total** (42) 47.

Cities: Ahmedabad (1) 113; Bangalore (1) 2; Bombay (30) 32; Calcutta (18) 12; Delhi (17) 27; Hyderabad (2) 1; Kanpur (40) 44; Madras (—) 1. **Total** (109) 232.

Robbery: 1970 figures given in brackets.

Andhra Pradesh (190) 246; Assam (240) 437; Bihar (1,045) 1,921; Gujarat (354) 692; Haryana (23) 32; Himachal Pradesh (28) 39; Jammu and Kashmir (12) 17; Karnataka (136) 222; Kerala (154) 162; Madhya Pradesh (881) 1,644; Maharashtra (1,532) 2,991; Manipur (33) 39; Meghalaya (13) 32; Nagaland (23) 39; Orissa [illegible] 380; Punjab (28) 51; Rajasthan (863) 1,301; Tamil Nadu (107) 141; Tripura (38) 37; Uttar Pradesh (9,710) 10,207; West Bengal (947) 1,204. **Total** (16,571) 21,843.

Union Territories: Andaman and Nicobar (2) 4; Arunachal Pradesh (—) 1; Chandigarh (2) —; Dadra and Nagar Haveli (5) 5; Delhi (363) 343; Goa, Daman & Diu

(13) 28 ; Lakshadweep (—) — ; Mizoram (—) 54 ; Pondicherry (2) 8. **Total** (387) 443.

Cities : Ahmedabad (14) 35 ; Bangalore (26) 19 : Bombay (225) 409 ; Calcutta (72) 63 ; Delhi (298) 329 ; Hyderabad (36) 29 ; Kanpur (262) 256 ; Madras (1) 25 ; **Total** (934) 1,165.

Housebreaking : 1970 figures given in brackets.

Andhra Pradesh (4,919) 6,408 ; Assam (4,382) 7,112 ; Bihar (20,635) 21,121 ; Gujarat (4,188) 6,577 ; Haryana (1,715) 1,797 ; Himachal Pradesh (366) 567 ; Jammu and Kashmir (840) 1,245 ; Karnataka (6,193) 8,621 ; Kerala (3,414) 4,417 ; Madhya Pradesh (16,430) 25,485 ; Maharashtra (14,497) 23,425 ; Manipur (175) 389 ; Meghalaya (117) 161 ; Nagaland (148) 276 ; Orissa (6,832) 6,519 ; Punjab (1,524) 1,685 ; Rajasthan (6,827) 8,920 ; Tamil Nadu (6,658) 8,212 ; Tripura (336) 678 ; Uttar Pradesh (52,006) 52,509 ; West Bengal (9,979) 9,761. **Total** (162,064) 195,885.

Union Territories : Andaman and Nicobar (30) 58 ; Arunachal Pradesh 31 ; Chandigarh (133) 115 ; Dadra & Nagar Haveli (26) 40 ; Delhi (3,601) 2,998 ; Goa, Daman and Diu (342) 423 ; Lakshadweep (6) 4 ; Mizoram 60 ; Pondicherry (137) 264. **Total** (4,275) 3,993.

Cities : Ahmedabad (343) 520 ; Bangalore (1,409) 1,529 ; Bombay (1,903) 2,824 ; Calcutta (819) 671 ; Delhi (3,074) 2,846 ; Hyderabad (662) 932 ; Kanpur (1,370) 1,533 ; Madras (162) 622. **Total** (9,742) 11,477.

Thefts : 1970 figures give in brackets.

Andhra Pradesh (11,394) 16,724 ; Assam (7,210) 11,168 ; Bihar (26,254) 31,752 ; Gujarat (10,718) 19,439 ; Haryana (2,579) 2,862 ; Himachal Pradesh (436) 683 ; Jammu and Kashmir (1,237) 1,685 ; Karnataka (10,688) 16,156 ; Kerala (5,395) 5,724 ; Madhya Pradesh (30,209) 46,999 ; Maharashtra (42,678) 69,073 ; Manipur (466) 879 ; Meghalaya (342) 713 ; Nagaland (301) 549 ; Orissa (12,485) 11,702 ; Punjab (2,884) 2,903 ; Rajasthan (9,229) 12,597 ; Tamil Nadu (19,357) 28,304 ; Tripura (1,241) 1,233 ; Uttar Pradesh (92,674) 97,079 ; West Bengal (32,209) 35,422. **Total** (317,200) 413,646.

Union Territories : Andaman and Nicobar (74) 157 ; Arunachal Pradesh (—) 62 ; Chandigarh (880) 794 ; Dadra & Nagar Haveli (31) 31 ; Delhi (18,007) 20,398 ; Goa, Daman & Diu (371) 629 ; Lakshadweep (10) 4 ; Mizoram (—) 262 ; Pondicherry (638) 935. **Total** (20,011) 23,372.

Cities : Ahmedabad (1,269) 2,282 ; Bangalore (3,619) 5,845 ; Bombay (13,640) 18,550 ; Calcutta (5,169) 6,087 ; Delhi (17,168) 19,638 ; Hyderabad (1,908) 2,769 ; Kanpur (3,705) 543 ; Madras (4,598) 8,083. **Total :** (51,076) 63,797.

Riots : 1970 figures given in brackets.

Andhra Pradesh (3,388) 2,737 ; Assam (3,111) 3,971 ; Bihar (10,239) 14,474 ; Gujarat (484) 3,572 ; Haryana (107) 74 : Himachal Pradesh (49) 177 ; Jammu and Kashmir (736) 879 ; Karnataka (1,953) 2,842 ; Kerala (4,269) 5,216 ; Madhya Pradesh (2,170) 3,578 ; Maharashtra (2,043) 3,015 ; Manipur (311) 180 ; Meghalaya (33) 66 ; Nagaland (14) 52 ; Orissa (1,992) 2,156 ; Punjab (44) 52 ; Rajasthan (3,381) 6,748 ; Tamil Nadu (3,075) 4,464 ; Tripura (336) 250 ; Uttar Pradesh (14,015) 14,528 ; West Bengal (16,337) 10,790. **Total** (68,036) 80.001.

Union Territories : Andaman and Nicobar (16) 26 ; Arunachal Pradesh (—) 1 ; Chandigarh (9) 15 ; Dadra & Nagar Haveli (—) 44 ; Delhi (201) 280 ; Goa, Daman and Diu (21) 71 ; Lakshadweep (—) — ; Mizoram (—) 3 ; Pondicherry (48) 106. **Total** (295) 546.

Cities : Ahmedabad (58) 1,129 ; Bangalore (118) 61 ; Bombay (338) 512 ; Calcutta (1,217) 801 ; Delhi (178) 260 ; Hyderabad (93) 69 ; Kanpur (242) 311 ; Madras (75 316. **Total** (2,319) 3,456.

Arms Act : 40,798 offences were reported under this category during 1974 showing a 28·7 per cent increase over 1973.

72 per cent of the total offences were reported from Uttar Pradesh alone. The highest volume of this crime per 100,000 of population was in Punjab 32·6 followed by Uttar Pradesh 31·5.

Among the cities Kanpur registered 1,525 cases followed by Delhi 1,289. The volume of this crime per 100,000 of population was highest in Kanpur (120) and the lowest was Delhi (30).

Opium Act : Punjab recorded 6,585 offences under this Act — 55·7 per cent of the country's total, followed by Haryana 2,656.

Among the cities 322 cases were registered in Delhi. The volume of offences per 100,000 of population was the highest for Chandigarh 24·4.

Gambling Act : 194,898 cases were registered during 1974. The highest volume was recorded in Tamil Nadu 136·7 against all-India average of 33·3 per 100,000 of population. Among metropolitan cities, the maximum incidence under this Act was in Bombay (11,034) followed by Madras (5,981).

Suppression of Immoral Traffic in Women and Girls Act : 14,825 cases were registered in 1974. The three southern states of Tamil Nadu, Andhra Pradesh and Karnataka accounted for 94·4 per cent of the total offences registered in the country. The increase registered by Andhra Pradesh was 27·0 per cent, Karnataka 57·6 per cent and Tamil Nadu 17·9 per cent in 1974.

Disposal of cases by Police : During 1974 there were 1,428,435 cases of IPC crimes under investigation with the police, including pending cases of previous years. Of these 8·8 per cent were dropped due to mistake of fact or law or in which investigation was refused or because the offence was considered non-cognizable by the police.

The highest percentage in which investigations had to be dropped was under the crime head 'Kidnapping & Abduction' (19·2) followed by 'Criminal Breach of Trust' (16·3).

Investigations were completed in 1,030,046 cases and charge-sheets framed in 54·4 per cent cases.

The highest percentage of cases in which charge-sheets could be laid out was rape (78·6 per cent).

Disposal of cases by Courts : There were 1,307,933 cases under trial in 1974, including those pending from previous years. Of those 5·8 per cent cases had to be withdrawn or compounded. The highest percentage of cases withdrawn or compounded related to 'counterfeiting' (21·4 per cent) whilst the lowest related to 'dacoity' (0·3 per cent).

During the year only 27·8 per cent cases were tried completely. The highest percentage of conviction to total cases in which trials were completed related to thefts (75·1 per cent) and the lowest were dacoity (37·5 per cent).

Juvenile Crimes : There were 40,666 cases of crime committed by juveniles in 1974 under I.P.C. This indicated an increase of 11·5 per cent over 1973.

The crimes committed by juveniles under I.P.C. under different heads were : murder : 804 ; dacoity : 426 ; robbery : 288 ; burglary : 521 ; thefts : 7,238 ; riots : 16,153 ; criminal breach of trust : 3,729 ; cheating : 272 ; counterfeiting : 2 ; and miscellaneous : 10,982.

State-wise break-up of Juvenile Crimes: Andhra Pradesh 1,117 ; Assam 1,647 ; Bihar 2,074 ; Gujarat 4,352 ; Haryana 689 ; Himachal Pradesh 538 ; Jammu & Kashmir 528 ; Karnataka 1,906 ; Kerala 87 ; Madhya Pradesh 8,036 ; Maharashtra 10,282 ; Manipur 142 ; Meghalaya 95 ; Nagaland 51 ; Orissa 574 ; Punjab 250 ; Rajasthan 1,441 ; Tamil Nadu 2,910 ; Tripura : — ; Uttar Pradesh 419 ; West Bengal 988 ; Delhi 1,554 ; Union Territories 2,540.

Juvenile Crime under Local and Special Laws : During 1974 the number of offences under this head declined by 3·2 per cent over 1973. However, crimes under Opium Act, Suppression of Immoral Traffic in Women Act and Indian Railways Act recorded substantial increases. The Acts under which the offences were committed and the number of cases during 1974 were as follows : Arms Act 257 ; Opium Act 183 ; Gambling Act 14,037 ; Excise Act 3,309 ; Prohibition Act 10,886 ; Explosives Act 7 ; Suppression of Immoral Traffic in Women and Girls 2,124 ; Motor Vehicles Act 375 ; Indian Railways Act 753 ; Miscellaneous 27,902.

Juvenile Socio-economic Background : A study was conducted to ascertain the family background, economic set up, religion, community and education of those involved in juvenile crimes. The information was available in respect of 137,628 juveniles. The findings cover crimes under IPC and local and special laws.

Family Background : About 69 per cent of the juveniles were living with their parents and 8·5 per cent were homeless.

Economic set up : About 73 per cent came from the income group below Rs. 150 per month ; whilst only 928 juveniles belonged to the Rs. 1,000 and above income group.

Religion : 61·6 per cent belonged to the Hindu religion, 19·1 per cent to Muslim, 3·5 per cent Christians, 1·5 per cent Sikh and 14·3 per cent others.

Community: 23·8 per cent belonged to Scheduled Castes and 15·9 per cent to Scheduled Tribes.

Education : 49 per cent arrested were illiterates and 4 per cent above Matriculation.

Rape : The total number of rape cases during 1974 was 2,962. The highest number of cases reported was from Uttar Pradesh (682), followed by Madhya Pradesh (515) and West Bengal (288). The percentage of victims of rape under age group 16 to 30 years was the highest (61·0 per cent) while girls below the age of 16 years accounted for (24·6 per cent) followed by those above 30 years (14·4 per cent).

Following is the breakdown state-wise (within brackets are the figures of victims below 16, 16 to 30 and above 30 in that order).

Andhra Pradesh 73 (24, 44, 5) ; Assam 106 (42, 57, 7) ; Bihar 252 (68, 146, 38) ; Gujarat 60 (6, 42, 12) ; Haryana 54 (14, 28, 12) ; Himachal Pradesh 16 (3, 9, 4) ; Jammu and Kashmir 48 (9, 33, 6) ; Karnataka 23 (—, 11, 12) ; Kerala 55 (16, 31, 8) ; Madhya Pradesh 515 (125, 294, 96) ; Maharashtra 280 (88, 142, 50) ; Manipur 11 (3, 8, —) ; Meghalaya 6 (1, 4, 1) ; Nagaland 13 (—, 13, —) ; Orissa 40 (6, 32, 2) ; Punjab 86 (22, 48, 16) ; Rajasthan 182 (16, 139, 27) ; Tamil Nadu 65 (21, 35, 9) ; Tripura 7 (—, 6, 1) ; Uttar Pradesh 682 (175, 423, 84) ; West Bengal 288 (54, 212, 22).

Police Killed or Injured : The Statewise breakdown of policemen killed (figure in brackets) and injured :

Andhra Pradesh (8) 39 ; Assam (4) 203 ; Bihar (5) 131 ; Gujarat (18) 1,281 ; Haryana (5) 16 ; Himachal Pradesh (1) 22 ; Jammu and Kashmir (—) 372 ; Karnataka (1) 130 ; Kerala (2) 174 ; Madhya Pradesh (131) 371 ; Maharashtra (17) 886 ; Manipur (1) — ; Meghalaya (—) 19 ; Nagaland (9) 0 ; Orissa (1) 114 ; Punjab (19) 79 ; Rajasthan (2) 491 ; Tamil Nadu (4) 177 ; Tripura (—) 21 ; Uttar Pradesh (48) 297 ; West Bengal (26) 119 ; Delhi (4) 173 ; Other Union Territories (2) 133.

JAILS : There are 1,191 jails in India. They can accommodate 190,000 people. The total number of convicts in these jails was 93,160 and of undertrial prisoners 126,772. These jails include central, district subjuvenile, and open jails. The figures, which relate to 1974-75, have been compiled by the National Institute of Social Defence. According to this report during 1974-75, there were more than 21,800 juvenile and young offenders in the jails and over 5,000 women prisoners.

CIVIL AVIATION

MINISTER for Tourism & Civil Aviation : Mr. P. L. Kaushik.

Director-General of Civil Aviation : Mr. B. S. Gidwani (For other officials see "Government of India Personnel".)

Fifth Plan Outlay : Rs. 3,910 million ; allocation for 1976-77 was Rs. 664·8 million.

INTERNATIONAL AIRPORTS AUTHORITY OF INDIA, Yeshwant Place, Chanakya Puri, New Delhi 110021. Based at Delhi, IAAI was created as a statutory corporation with effect from February 1, 1972 for the management and development of the four international airports at Bombay, Calcutta, Delhi and Madras.

Members: B. S. Das (Chairman) ; K. G. Appuswamy, Managing Director, Air India ; P. S. Sandhawalia (Chief Engineer) ; B. S. Gidwani, Director General of Civil Aviation ; M. G. Abrol, Chairman, Central Board of Excise and Customs and Ex-Officio Addl. Secretary, Ministry of Revenue and Banking ; J. D. Philomen Dos, Director, Ministry of Tourism and Civil Aviation ; C. B. Jain, Director General of Tourism ; S. Madhusudan, Labour Representative ; M. C. Sarin, Managing Director, Indian Airlines.

Directors of International Airports : Bombay — Gp. Capt. A. M. Palamkote ; Calcutta — Air Cdre. N. Sinha Ray ; Delhi — Air Cdre. A. S. M. Bhawnani ; Madras — Air Cdre. W. J. Fernandes.

AIRPORTS : At the end of December, 1977, 85 airports were maintained by the Civil Aviation Department. By categories these are :—

Major Airports: (12): Agartala, Ahmedabad, Amritsar, Begumpet, Delhi (Safdarjung), Gauhati, Jaipur, Lucknow, Nagpur, Patna, Tiruchirapalli, Varanasi (Benaras).

Intermediate Airports (41) : Aurangabad, Barapani (Shillong), Baroda, Behala, Belgaum, Bhavnagar, Bhuntar (Kulu), Bhopal, Bhubaneshwar, Bhuj, Bombay (Juhu), Coimbatore, Gaya, Indore, Junagadh (Keshod), Kailashahar, Kamalpur, Kandla, Khajuraho, Khowai, Kota, Kumbhirgram (Silchar), Madurai, Mangalore

(Bejpe), Mohanbari, Muzaffarpur (Rewaghat), Nadirgul (Gliderdrome, Hyderabad), North Lakhimpur (Lilabari), Panagarh, Pantnagar (Phoolbagh), Porbandar, Port Blair, Raipur, Rajkot, Ranchi, Tirupati (Rani Gunta), Trivandrum, Tulihal (Imphal), Udaipur, Vijayawada, Visakhapatnam.

Minor Airports (32) : Akola, Balurghat, Bilaspur, Chakulia, Cooch-Behar, Cuddappah, Donakonda, Hadapsar (Gliderdrome, Pune), Hassan, Jabalpur, Jhansi, Jharsuguda, Jogbani, Kanpur (Civil), Khandwa, Kolhapur, Lalitpur, Malda, Mysore, Palanpur (Dessa), Panna, Pasighat, Rajahmundry, Ramnad, Raxaul, Rupsi, Satna, Shella, Solapur, Tanjore, Vellore, Warangal.

Navigational Aids : The Civil Aviation Department has proposed a Rs. 450 million comprehensive scheme to modernise the communication and navigational facilities at the country's major airports during the Fifth Plan period. Under the scheme, major airports will be equipped with landing aids like ILS and precision navigational aids like VOR.

TRAINING CENTRES : The Civil Aviation Training Centre, Allahabad, comprising of an Aerodrome School and Communications School, is the principal training centre in the country, where basic training and refresher courses are conducted for departmental officers. During the year 1977, 113 persons were trained in various categories.

Facilities exist for training of glider instructors and winch operators at the **Government Glider Centre**

TRAFFIC STATISTICS 1976–77.

	BOMBAY	CALCUTTA	DELHI	MADRAS	TOTAL
Aircraft Movements *International*					
(*a*) Schedule	19,625	5,829	11,999	1,925	39,378
(*b*) Non-schedule	2,113	1,162	1,463	259	4,997
TOTAL	21,738	6,991	13,462	2,184	44,375
Domestic					
(*a*) Schedule ..	26,570	21,398	15,661	11,468	75,097
(*b*) Non-schedule ..					
TOTAL	26,570	21,398	15,661	11,468	75,097
GRAND TOTAL (I) ..	48,308	28,389	29,123	13,652	119,472
Passengers *International*					
(*a*) Embarked	617,807	76,911	318,311	52,340	1,065,369
(*b*) Disembarked	537,050	76,429	297,199	58,263	968,941
(*c*) Transit	716,156	14,908	458,470	26,239	1,215,773
TOTAL	1,871,013	168,248	1,073,980	136,842	3,250,083
Domestic					
(*a*) Embarked	815,369	439,247	637,314	276,444	2,168,374
(*b*) Disembarked ..	713,594	434,568	626,403	277,250	2,051,815
(*c*) Transit	—	—	—	—	—
TOTAL	1,528,963	873,815	1,263,717	553,694	4,220,189
GRAND TOTAL (II) ..	3,399,976	1,042,063	2,337,697	690,536	7,470,272
Cargo (in tonnes)					
International	48,314	8,047	22,642	5,447	84,450
Domestic	10,653	6,916	18,807	7,556	43,932
TOTAL	58,967	14,963	41,449	13,003	128,382
Mail (in tonnes) *International*					
(*a*) Loaded	1,497	1,190	1,201	71	3,959
(*b*) Unloaded	1,290	896	635	141	2,962
TOTAL	2,787	2,086	1,836	212	6,921
Domestic					
(*a*) Loaded	2,743	1,856	4,060	1,586	10,245
(*b*) Unloaded	3,613	2,039	3,781	1,068	10,501
TOTAL	6,356	3,895	7,841	2,654	20,746
GRAND TOTAL ..	9,143	5,981	9,677	2,866	27,667

Pune. Facilities are available at the **Fire Services Training School** at 229, N. Subash Rd., Calcutta, for training of departmental candidates for courses in "crash and fire rescue". Facilities for training foreign nationals are also available at Allahabad and other centres under various aid schemes.

FLYING CLUBS : There are 25 subsidised flying clubs with their headquarters at Amritsar, Hyderabad, Gauhati, Banasthali, Patna, Bombay, Coimbatore, New Delhi, Bangalore, Vadodara, Lucknow, Hissar, Jamshedpur, Karnal, Trivandrum, Indore, Nagpur, Madras, Jullundur Cantt., Bhubaneshwar, Patiala, Jaipur, Behala (Calcutta), Raipur and Ludhiana.

GLIDING CLUBS : Besides the Government Centre at Pune, there are 13 subsidised gliding clubs/wings at Agra, Ahmedabad, Amritsar, New Delhi, Deolali, Hissar, Jaipur, Jullundur, Kanpur, Pilani, Raipur, Patiala and Patna.

Aeronautical Communication Services : As on 31st December 1977, the Aeronautical Communication Service was operating and maintaining 86 Aeronautical Communication Stations, providing 213 aero mobile channels in the aeronautical mobile service, 287 radio and landline circuits in the aeronautical fixed telecommunications network and 201 radio navigation facilities.

RESEARCH & DEVELOPMENT DIRECTORATE:

Principal functions : (i) Airworthiness engineering including type-certification of civil aircraft and aeronautical equipment; approval of modifications to civil aircraft, etc. (ii) Research, evaluation and development, including investigations on operational problems like aircraft noise, atmospheric turbulence, evaluation of performance and economics of civil transport and other aircraft etc. (iii) Prototype development, including design and development of prototype light aircraft, gliders, sailplanes, winches etc. (iv) Airworthiness engineering training.

AIRCRAFT DEVELOPMENTS: The MK. II prototype "Revathi" was test flighted and Certificate of Airworthiness issued. Development of ninth Kartik KS. II glider (TC-49) has been completed and the Certificate of Airworthiness issued. The development and construction of the third prototype Mrigasheer High Performance sailplane with trailing-edge flaps was also completed and it is being prepared for flight tests. The design of a third prototype two-seater semi-acrobatic trainer aircraft (TC-103) which is powered by a 150 HP engine, is in progress. The design and development of a two-seater tandem glider (Prudhra TC-71) with low wing loads is now in progress. During 1977, certificates of Airworthiness were obtained for sailplanes "Kartik (TC-42)", "Mrigasheer (TC-61)" and "Mrigasheer (TC-68)."

ACCIDENTS : During the period 1 January to 31 December, 1977, there were 18 notifiable accidents in India involving 18 Indian aircraft. Three of the accidents proved fatal resulting in the death of seven crew members and ninety passengers.

Out of 18 accidents, 8 have been investigated by the Civil Aviation department, and the remaining 10 are under investigation. One accident proved fatal resulting in the death of 5 members of the crew and 5 passengers.

Apart from this, the **Air Safety Directorate** investigated 161 precautionary landings, 10 forced landings, 12 airmiss incidents and 287 minor accidents/incidents during the period from 1 January to 31 December, 1977.

Non-Scheduled Air Transport : As on 31 December, 1977, there were 15 flying clubs and 14 private operators holding permits for operation of non-scheduled air services. 12 operators hold permits for agricultural aerial spraying operations. The question of permitting some of these non-scheduled operators to fly on selected "non-trunk" domestic routes on a regular basis to replace Indian Airlines services is under consideration.

Scheduled Air Transport: Air India as the national flag carrier and Indian Airlines as the main domestic carrier are the two scheduled airlines. Both these companies came into being when air transport was nationalised under an Act of Parliament, Air Corporation Act, 1953. Performance of both these airlines suffered (due to industrial action) during the year 1974. Indian Airlines due to the after effects of the 1973 lockout and Air India due to the illegal strike of the pilots from 3-8-73 to 31-10-74.

AIR INDIA : Headquarters : Air India Building, 218, Backbay Reclamation, Nariman Point, Bombay 400021. Has 37 online and 100 offline sales offices and representations all over the world.

Starting with just one weekly service to London in June 1948, Air India now operates extensive scheduled services from Bombay and four other Indian cities—Calcutta, Delhi, Madras and Trivandrum ; to Africa (Addis Ababa , Nairobi Accra, Lagos, Seychelles and Mauritius) ; to USA (New York) ; to Europe (London, Paris, Amsterdam, Frankfurt, Geneva, Rome and Moscow) ; to the Middle East and Australia (Cairo, Doha, Abu Dhabi, Dhaharan, Dubai, Baharain, Kuwait, Aden, Muscat, Tehran, Baghdad, Jeddah, Bangkok, Hong Kong, Tokyo, Osaka, Kuala Lumpur, Singapore, Perth and Sydney), two freighter services a week to London from Bombay and one to Tokyo completes the schedule. At the end of the year (1977) Air India were operating 66 flights per week to these destinations.

Fleet : Air India today has six Boeing 747s and nine Boeing 707s.

Board of Directors : Air Chief Marshal P. C. Lal, Chairman ; Mr. K. G. Appusamy, Deputy Chairman and Managing Director ; Directors : C. B. Jain, Miss Prem Lal, M. C. Sarin, N. Saihgal, Miss Thangamma Philip, J. M. Chudasama.

Management : Air Chief Marshal P. C. Lal, Chairman; K. G. Appusamy, Dy. Chairman and Managing Director ; Om Sawhney, Dir. of Engineering ; P. V. Gole, Dir. of Personnel and Ind. Relations ; C. L. Sharma, Dy. Mg. Dir. (Headquarters) ; Capt. D. Bose, Dir. of Operations ; I. D. Sethi, Dy. Mg. Dir. (Commercial) ; Brig. M. P. Joseph, Controller of Civil Works and Properties ; D. P. Nunkar, Controller of Ground Handling ; V. N. Herekar, Controller of Stores and Purchases ; G. D. Dubey, Controller of Communications ; K. L. Ramchandani, Dy. Dir., Inflight Services ; P. Jayant, Dy. Dir., Management Information Services.

Holding Companies: Air India set up on September 9, 1971, a wholly-owned subsidiary company called **Air India Charters Ltd.** to meet competition from non-scheduled operators. This is a non-IATA charter company and is set up with a capital of Rs. 500,000. At present the company operates one flight a week to Amsterdam.

Another wholly subsidiary company called **Hotel Corporation of India Ltd.** came into being on July 8, 1971 ; it operates "CENTAUR" hotel at Bombay airport ; two other hotels are planned.
Chairman : R. K. Narpatsingh.

INDIAN AIRLINES : (Head Office: Airlines House, 113, Gurdwara Rakab Ganj Rd., New Delhi 110001). The fleet as on 31 Dec. 1977: 3 Airbus A300 B2; 15 Boeing 737; 3 Caravelle SE-210; 8 Fokker Friendship F-27; 15 HS-748; 1 DC-3. The Airline's services extend over the entire sub-continent, including Nepal, Sri Lanka, Afghanistan, Pakistan, Male and Bangla Desh. With operations to 67 stations, every three minutes one Indian Airlines plane is either taking off or landing at any of these airports. The operations of the Airlines have been divided into four regions: Delhi, Bombay, Calcutta, Madras.

Board of Directors : Air Chief Marshal P. C. Lal, *Chairman ;* M. C. Sarin, *Mg. Director ;* G. D. Mathur, *Dy. Mg. Director ;* K. G. Appusamy ; Miss Prem Lal ; C. B. Jain ; M. S. Appa Rao ; Miss Thangam E. Philip ; Hemendra Prasad Barooah.

Executive Heads: K. A. Kathju, *Director of Engineering ;* S. A. Rajagopal, *Commercial Director ;* Capt. A. M. Kapur, *Director of Operations ;* Capt. A. M. Pereira, *Director of Training;* Kirpal Chand, *Director of Finance;* M. L. Parwal, *Controller of Stores and Purchases ;* N. C. Bharma, *Secretary ;* Ajit S. Gopal, *Public Relations Manager.*

Regional Directors : Delhi: Capt. G. S. Dhillon; Bombay: Capt. B. Braganza; Calcutta: Capt. R. K. Sen; Madras: Capt. J. Joseph.

The following table provides comparative performance data for the two airlines for the year 1976.

	AI	IA
	1976	1976
Passenger Traffic		
Passengers Carried ..	883,645	3,660,736
Passenger kms. (×000) ..	4,536,722	2,835,901
Available seats kms. (×000)	7,224,270	4,000,921
Load Factor — per cent ..	62·8	70·9
Freight and Mail Traffic		
Freight tonne kms. (×000)	233,108	25,053
Mail tonne kms. (×000) ..	12,314	13,553
Productivity		
Total tonne kms. (×000) ..	661,928	270,166
No. of employees	11,472	14,959
Average TKMs for Employee	57,700	18,060
Fleet Utilisation		
No. of Aircraft	14	42
Total Revenue Hours .. (Scheduled & Non-Scheduled)	49,329	108,139
Average hours per aircraft	3,523	2,575
Route Network		
Scheduled Route Network (kms.)	183,483	48,588

(IATA Statistics)

COMMUNICATIONS

POST AND TELEGRAPH

HISTORY : The first postal system was introduced in 1766 by Lord Clive, for official purposes only. In 1837, it was opened to the public and the first issue of postal stamps was made in Sind in 1852. The basis of authority of the existing postal system in India, is Act 6 of 1858. The first official airmail flight was taken on 18 Feb., 1911, by M. Pequet, a French aviator.

The first experimental telegraph line from Calcutta to Diamond Harbour was laid by Dr. William B. O. Shaughnessy. The first telegraph line was opened for traffic in October, 1851. Telegraph circuits were gradually extended to all parts by 1867.

Administration : The Indian Posts and Telegraphs Department, the second largest civil employer in the country, comes under the administrative control of the Department of Communications. The Secretary of the Department holds charge of the office of the Director-General, Posts and Telegraphs as also that of the Chairman of the Posts and Telegraphs Board.

Staff : The staff strength as on March 31, 1977, was 704,000 including 222,418 extra departmental staff and 6,969 industrial workers. Out of this 73,135 were members of the Scheduled Castes and 17,287 Scheduled Tribes.

Pin Code : Postal Index Number code was introduced on 15-8-72. This is a 6 digit code which identifies and locates every departmental delivery office.

No. of Post Offices : There were 123,242 post offices at the end of 1977 out of which 12,903 were in the urban areas. 1,564 new post offices were opened during 1977-78 against 1,334 opened during the previous year. During 1976-77, 636 post offices were opened in urban areas and 212 branch post offices in rural areas were upgraded to the level of Departmental Sub-offices. 131 night post offices also continued to function during the year in the urban areas.

A post office today serves an average area of 27·17 sq. kms. and a population of 4,533 as against 142·08 sq. kms. and a population of 16,134 at the time of Independence.

Rural Mobile Post Offices : The first cycle post office was opened in Shirgaon, near Ratnagiri in 1974. There were more than 1,000 cycle post offices in Maharashtra and Goa as on Jan. 1, 1978. There were 22,055 mobile rural post offices (March 1978) in the country.

Floating Post Office : The first floating post office was launched on June 29, 1976 at Kuttanadu in Kerala.

Postal Traffic : In the year 1976-77 an estimated 7,738·0 million pieces of articles, excluding money orders, were handled of which, 208·7 million were registered articles.

106·6 million inland money orders totally valued at Rs. 9,690 million were issued. The department earned Rs. 238·78 million as commission. 8·9 million value payable articles were dealt with.

542,938 parcels were despatched to foreign countries and 623,084 were received from abroad.

Mail Conveyance : Departmental motor services functioned in 65 cities covering a distance of 15·9 million kms.

Within the country mail was conveyed by surface routes over a length of 1·04 million kms. according to the following break-down: 15 per cent by rail; 38 per cent by motor services; 33 per cent by runners; and 14 per cent by boats, camels, horses, bicycles etc.

"QMS" (Quick Mail Service) was introduced in India on August 1, 1975 inter-connecting the headquarters of the States/Union Territories. As on December 31, 1976 QMS was extended to 350 centres.

Savings Bank : Over 120,000 post offices in the country offer saving bank facilities. About 40·4 million people have savings in the post offices. Total deposits were Rs. 45,120 million at the end of September, 1977 as against Rs. 43,000 million on March 31, 1977. Cheque facilities have been introduced in all the departmental post offices. Post offices also sell 5-Year National Development Bond, introduced by the Govt. of India on August 31, 1977.

Telegraph Offices : There are 20,870 telegraph offices. 65·1 million inland telegrams were booked during 1976-77 recording an increase of 2·5 per cent over the previous year. During 1976–77, 1,448 telegraph offices were opened.

Besides 9·64 million phonograms, 3·76 million greeting telegrams and 367 inland and 1,585 outgoing and 292 incoming foreign photo telegrams were handled during the year. 1·85 million phonograms were delivered over the phones during 1976–77. 82,037 radio telegrams from ships and 40,691 addressed to ships were handled during the year.

Telex : At the end of 1977 direct Telex was available to 21 countries and switched Telex service to 168 countries.

Telephones : During the year 1977, 153,168 new connections were added to the local telephones bringing the total number of telephones in the country to more than 1·877 million. The total number of subscriber telephone sets including extensions increased to 2·095 million.

The number of telephone exchanges in the country was 5,819 at the end of 1976–77.

The number of applicants on the waiting list for telephones was 250,000 in July 1976.

International Telephone Service : Direct telephone service is now available to 35 countries. Of these 28 countries are connected through Satellite telephone circuits. Switched telephone service is now available to almost all the countries.

Mobile Phone Exchange : A trailer-mounted mobile telephone exchange (first of its kind in the country) designed and manufactured by Indian Telephone Industries, Bangalore was commissioned on January 19, 1977. The exchange with a 1,000 line capacity, costing Rs. 200,000 will provide telephone services in any area. It has all facilities of a regular exchange.

Own Your Telephone : Total number of OYT connections given upto March 31, 1976 was 331,138 and the revenue collected thereon was Rs. 1,005 million. During March-December, 1976 another 27,323 connections under the OYT scheme were given.

Subscriber Trunk Dialling : First STD route was introduced between Delhi and Jaipur on September 8, 1964. This facility is now available on over 250 routes covering all major cities and towns of India.

S.T.D. system has been extended to overseas centre on October 8, 1976.

Commemorative Stamps (1977)

Occasion and date respectively : Sixth International Film Festival, Jan. 1 ; Sixth World Conference Earthquake Engineering, Jan. 10 ; birth Centenary of Tarun Ram Phookum (Deshabhakta), Jan. 22 ; 25th anniversary of Mahasamadhi of Gurudeva Paramhamsa Yogananda, March 7 ; First Asian Regional Red Cross Conference, March 9 ; in memory of the late President Fakhruddin Ali Ahmed, March 22 ; Asian Oceanic Postal Union Stamp, April 1 ; birth centenary of Narottam Morarji, April 2 ; in honour of Pt. Makhanlal Chaturvedi (freedom fighter and distinguished writer), April 4 ; centenary of the birth of Mahaprabhu Vallabhacharya (great philosopher), April 14 ; golden jubilee celebration of Federation of Indian Chambers of Commerce and Industry, April 23 ; four multicoloured stamps on Indian flowers — Tofas, Tree-rhododendron, Kadamba and Gloriosa, July 1 ; birth centenary of Ananda Kentish Coomaraswamy — art historian and critic, Aug. 22 ; in honour of Dr. Ram Manohar Lohia, socialist leader, Oct. 12 ; in memory of the revolt of warrior-queen Rani Chinnamma of Kittur against British (on Oct. 23, 1824), Oct. 23 ; golden jubilee of the institution of Public Service Commission in India, Nov. 8 ; on the occasion of the inauguration of AGRIEXPO —77, Nov. 13 ; children's day stamps (paintings by children below 7), Nov. 14 ; in honour of Senapati Bapat, Nov. 28 ; in honour of Mahatma Jyotirao Phule (social reformer), Nov. 28 ; Hindi literary figure Kamta Prasad Guru, Dec. 25 ; 60th anniversary of the Great October Socialist Revolution, Dec. 30.

OVERSEAS COMMUNICATIONS SERVICE

The Overseas Communications Service (OCS), a Department of the Government of India, Ministry of Communications is responsible for all external telecommunications services of India. The services are provided through its four gateway centres at Bombay, New Delhi, Calcutta and Madras.

Nearly 99 per cent of the international telephone calls, 98 per cent of telex calls and 77 per cent of telegrams are carried *via* high quality international satellite communications system. The Vikram Satellite Earth Station at Arvi near Pune and the Ahmed Satellite Earth Station at Dehra Dun of O.C.S. work with the INTELSAT Satellite in the Indian Ocean Region. O.C.S. has direct satellite links to 21 countries.

O.C.S. provides a wide variety of international telecommunication services like phototelegraph, high speed data, leased telegraph channels, news broadcasts, etc. in addition to conventional public telephone, telex and telegraph services. Telephone service is available to 197 countries, telex service to 178 countries and telegraph service to practically any destination in the world. 75 customers (international trading houses, airlines, banks, etc.) are provided with international leased telegraph channels.

The bulk of international telephone service is at present operated in the semi-automatic mode. ISD Telephone subscriber dialling service is available for Bombay and New Delhi subscribers to the whole of UK on round-the-clock basis. Plans are on hand to extend the ISD service from Madras and Calcutta also shortly.

A Stored Program Controlled (SPC) Fully Automatic International Gateway Telex Exchange (GATEX) has been recently commissioned at Bombay. This offers fully automatic international subscriber dialling facility for Indian telex subscribers to all the major countries in the world.

BROADCASTING

History : Organised broadcasting was started in India in 1927 by private, Indian Broadcasting Company from Bombay and Calcutta. This lasted till 1930. Government of India decided to run radio stations in 1932. In 1935, broadcasting was constituted into a separate department. All India Radio replaced the earlier Indian State Broadcasting Service on June 3, 1936. Real break in broadcasting came with World War II. Most of the news services and external services originated during the war years.

Akashvani : All India Radio operates this service over a network of broadcasting stations located throughout the country. It caters to the complex needs of all communities in the country.

Broadcasting constitutes the most powerful medium of mass communication covering 85 per cent of our population. At the end of February, 1977, there were 80 broadcasting centres with 151 transmitters in India.

Commercial Broadcasting : Commercial services were started in November, 1967.

The earnings of Commercial Broadcasting Service of Akashvani during 1975–76 was Rs. 60 million which is Rs. 6 million more than the previous year.

Broadcast Receiver Licences : The number of radio licences, as on December 31, 1976, was 17,359,710 and that of television licences was 479,026. During the calendar year 1975, Rs. 250·1 million were collected as licence fee and surcharge.

TELEVISION

Television at Delhi started as an experimental service in 1959 and since then it has grown considerably. The duration of the general television programme in the evening transmission has been increased to 3 hours from July, 1970. Bombay television station started on 2nd October 1972. It started with programme time limited to 2 hours and 15 minutes daily, which has been increased to 3 hours on week days and 3½ hours on Saturdays and Sundays. Commercial TV started in India on 1st January, 1976.

At present Television has 14 transmitters and 12 *kendras*. They are Delhi (with relay centre at Mussoorie), Madras, Bombay (with a relay centre at Pune), Calcutta, Lucknow, Srinagar, Amritsar, Jaipur, Raipur, Gulbarga, Hyderabad and Ahmedabad, besides three base production centres at Delhi, Cuttack and Hyderabad.

Commercial T.V. was started from January 1, 1976. Ten per cent of the total transmission time is available for commercials every day.

T.V. Sets : The production of T.V. Sets during April–December, 1976 was about 105,000 against 95,000 sets for the whole year 1975–76.

PORTS

THERE are ten major ports in India, 21 intermediate ports and 152 working minor ports.

Technically a major port is one which is capable of taking in ocean-going steamers with a registered tonnage of 4,000 or more and berth them along the wharves.

The ten major ports are Bombay, Calcutta, Cochin, Kandla, Madras, Mormugao, New Mangalore, Paradeep, Port of New Tuticorin and Visakhapatnam.

State-wise distribution of intermediate ports and the number of minor ports respectively are :

Andhra Pradesh : Masulipatam, Kakinada and five minor ports. **Gujarat :** Okha, Porbander, Bhavnagar, Navalakhi, Bedi, Veraval, Bharuch, Mandvi, Sikka, Surat, and 40 minor ports. **Karnataka :** Karwar, Mangalore and 19 minor ports. **Kerala :** Alleppey, Kozhikode, and nine minor ports. **Maharashtra :** Ratnagiri Redi, and 46 minor ports. **Orissa:** Two minor ports. **Pondicherry :** One minor port of Pondicherry only. **Tamil Nadu :** Cuddalore, Nagapattinam, Tuticorin and eight minor ports. **Andaman & Nicobar Islands :** 15 minor ports. **Lakshadweep Islands :** Seven minor ports.

Eight major ports are administered by Port Trusts, which are statutory bodies. New Mangalore and Port of New Tuticorin are administered directly by the Govt. of India. The intermediate and minor ports are administered by State Governments.

The National Harbour Board : The Board advises the Central Government on matters of general policy relating to port management and development including the effects on industry, commerce, shipping, railways etc. so as to ensure integrated consideration of all important port matters.

LIGHTHOUSES : There are 328 lighthouses, 8 light-vessels, 13 fog signals, 7 M.F. radio beacons, 2 harbour control radars, 2 Decca navigator chains and several hundreds of lighted and un-lighted beacons, land marks etc. serving as aids to navigation — strewn over the coastline of approximately 6,915 kms. including Andaman, Nicobar and Lakshadweep Islands.

BOMBAY : The port of Bombay owns landed estates extending over 761 hectares from Pilot Bunder to Wadala and the docks cover an area of 283 hectares. Sassoon Dock has a water area of 1·5 hectares and limited facilities for five ships of 1,000 tonnes.

Besides the docks there are a number of " Bunders " or open wharves along the harbour front with a total quayage of about 12·5 kms.

Repair facilities for shipping are provided at two dry-docks — Hughes and Mereweather.

The port maintains its own railway system which serves the docks, ten local stations and a large number of sidings on the Port Trust estates. It also connects the main line railways.

Proposal for a satellite port at Nhava-Sheva is expected to be included in the Sixth Plan.

Chairman : B. C. Cariapa ; *Dy. Chairman :* K. K. Uppal ; *Secretary :* G. Ganesh Rao.

CALCUTTA : There are two docks, known as Kidderpore Dock and Netaji Subhas Dock. The third and subsidiary deep water modern dock at Haldia meant for handling bulk carriers and bigger vessels has been undergoing trial operations in respect of shipment of ore and coal. Other berths for handling phosphate, salt, sulphur, general cargo and containers will be opened to shipping in phases. A river-side oil jetty, a part of Haldia Dock complex, was commissioned in 1968. There are five dry docks — two in Netaji Subhas Dock, and three in Kidderpore Dock I.

MAJOR PORTS (1976-77)

Ports	Receipts (Rs.)	Expenditure (Rs.)	No. of passengers embarked	No. of passengers disembarked	Imports in tonnes	Exports in tonnes
Bombay	594,700,000	391,305,000	125,950	189,905	12,349,000	5,043,000
Calcutta	591,600,000	556,400,000	15,186	11,613	4,861,000	3,157,000
Cochin	127,949,600	94,599,000	7,387	6,773	3,570,132	1,197,425
Kandla	84,777,000	70,262,000	—	—	3,129,962	184,281
Madras	239,458,000	209,674,000	28,327	24,910	4,766,000	3,070,000
Marmugao*	60,706,000	45,006,000	130	—	617,888	12,835,632
New Mangalore†	13,859,108	17,381,949	—	—	261,674	115,369
Visakhapatnam*	172,316,000	222,715,000	2,343	—	2,560,000	6,130,000

* Separate figures are not available for embarked and disembarked passengers. † Figures relate to 1977–78.

Two river-side jetties are also available at Garden Reach for sea-going vessels. Taking into account the differences in size, design and mode of berthing the port can hold about 75 to 90 vessels in impounded docks, riverside jetties and river moorings.

There are six jetties with pontoons at Budge Budge, about 22·53 kms. from Calcutta.

Kidderpore Dock No. 2 has two coal berths.

The port including the new oil jetty at Haldia can handle over 14 million tonnes of traffic annually.

The chief exports from Calcutta are coal, tea, sugar, gunnies, bone and bone-meal, bunker oil, iron and steel manufactures, lac, scrap, ores, mica and railway wagons. The principal imports are salt, foodgrains and flour, sulphur, tinplate, machinery, petroleum, iron and steel, metals other than iron and steel, lubricating oil, cement, soda, timber, fertilisers, bricks, chemicals, oils and railway material.

Chairman : P. C. Mittra ; *Dy. Chmn. :* R. H. M. D'Silva ; *Secretary :* K. N. Ganguly.

COCHIN : The port of Cochin is open for deep water traffic in the worst monsoons and provides a splendid anchorage at all times of the year. Any ship drawing upto 30 ft. draft can enter the port even in the roughest weather.

The Cochin Harbour Railway is connected with the broad gauge system of the Southern Railway. Inside the harbour there are 11 stream berths, 2 coal berths, 8 wharf berths, 1 boat train pier jetty with facilities for discharging and loading bunker oil, two tanker berths and an open berth. Facilities for handling container cargo are provided at Q-5 berth of Ernakulam wharf.

During the Fifth Plan (1974-79) the Port authorities undertook construction of a super tanker oil dock and a fertiliser berth in Bolghatty channel, a new dry dock, container handling facilities at the open berth; facilities for handling and storage of bulk import of fertiliser raw materials for FACT at Q-10 area, acquisition of dredgers, high power tugs and cargo handling equipments and provision for additional warehouses. The south coal berth has been modified with storage facilities for bulk import of liquid ammonia for the needs of the Cochin division of FACT.

The principal imports are foodgrains, mineral oils (crude), cashewnuts, zinc concentrate, fertiliser and its raw materials. The principal exports are coir and coir products, tea, rubber, cashew kernels, seafoods, coconuts, spices, and mineral oil products.

Chairman : U. Mahabala Rao, I.A.S.

KANDLA : The major port of Kandla has now the following main facilities :—

A cargo jetty with : (*a*) 1,166 m. of quayage and designed depth of 9·8 m. of water alongside to accommodate five large size ships or six liberty type ocean-going vessels ; a marine unloader, designed to handle 500 tonnes of fertiliser and its raw materials per hour, has been installed at the fifth berth and commissioned. (This has a back-up storage facility of 30,000 tonnes and has automatic bagging and stitching arrangements ; (*b*) three single storeyed transit sheds, each 137 m. long and 43 m. wide, with a total storage capacity of about 15,000 tonnes of general cargo ; (*c*) broad wharves liberally served by dual gauge system of railway lines and roads ; (*d*) 21 electric quay cranes, the level luffing type of 3 tonnes, 6 tonnes and 10 tonnes capacities ; (*e*) spacious open stacking grounds served with railway and road sidings ; (*f*) four double storeyed warehouses, each 152 m. long and 37 m. wide with storage capacity of 60,000 tonnes, with overbridge connections to the roofs of the transit sheds, and provided with modern cargo lifts, chutes and loading platforms ; (*g*) 'Grinnel' automatic sprinkler and fire alarm system has been provided in one warehouse as a measure for protection against fire, for the storage of cotton cargo in the warehouse ; dangerous cargo sheds of 320 tonnes capacity and a calcium carbide shed of 48 tonnes capacity ; two vegetable oil tanks with a total capacity of 450 tonnes ; 3 sheds for storage of 10,000 tonnes fertiliser ; (*h*) two R.C.C. Piers for handling liquid bulk cargo are provided. They are connected with three oil pipe lines of 12", 14" & 16" dia. ; (*i*) 60 tonnes gantry crane in *Bunder* for heavy packages ; (*j*) fishing jetty with 2 tonne crane with cold storage facilities.'

The port is equipped with V. H. F. communication network for maintaining contact with pilot launches, survey launches and ships calling at the port.

The port is connected to its hinterland by broad gauge rail connection *via* Jhund-Ahmedabad and metre gauge rail connection *via* Disa-Palanpur. Also a national highway connects Kandla to Ahmedabad.

A Free Trade Zone has been established at Kandla.

The chief imports are mineral oil, vegetable oil, foodgrains, fertilisers, muriate of potash, sulphur, and machinery. Exports are sugar, tea, salt, crushed bones, guar gum, bentonite, and livestock.

An off shore oil terminal to handle very large crude carriers is being constructed at Vaninar in Saurashtra and will be connected to Mathura and Koyali refineries by submerged pipelines.

Chairman : S. L. Verma, I.A.S. ; *Secretary :* B. S. Barot.

MADRAS : *Berthing facilities :* There are in all 20 berths and 3 moorings with depth ranging from 7·90 m. to 14·6 m. The alongside berths include an oil berth in the Bharathi Dock and four berths for handling iron ore in the inner harbour.

Bharathi Dock : This outer dock located on the northern side of the main harbour basin is named after Subramania Bharathi. The dock comprises an oil berth and ore berth both designed to cater to 100,000 DWT tankers.

The oil berth now catering to 88,000 DWT tankers consists of five marine loading unloading arms, 3 for handling crude and 2 for refined products. The crude can be handled at 4,000 tonnes per hour and the refined products at 700 tonnes per hour.

A fully mechanised iron ore handling facility designed for receiving by rail, stockpiling, reclaiming, weighing, sampling and shiploading iron ore was completed and commissioned. The second stream was to be commissioned during 1978. The quantity to be handled per annum will be 5 million tonnes initially and 8 million tonnes ultimately.

Cargo handling equipment : Level luffing electric cranes of various capacities have been provided at each berth in addition to an adequate number of mobile cranes, forklifts, platform trucks, tractors, trailers etc. In addition a floating crane 'VAIGAI' of capacity 120 tonnes also helps the handling of heavy packages overside. Palletisation on an extensive scale is also among other factors helping to achieve quicker turn round of vessels. Pre-slinging method in cargo handling has also been introduced.

Storage and other facilities : There are 16 warehouses and 10 transit sheds providing covered accommodation of 78,000 sq. mtrs. and 47,000 sq. mtrs. respectively with rail road access. Bonding facilities and separate stacking area for hazardous goods are available. In addition, 283,000 sq. mtrs. of open area is also available for storage.

Apart from this there are 6 storage tanks of capacity ranging from 5 to 10 thousand tonnes with shore-to-ship and vice versa pumping facilities to handle liquid cargo.

Types of cargo handled: The main imports are coal, foodgrains, mineral oils, fertilisers, phosphate, sulphur, phosphoric acid, machinery, hardware, iron and steel, cotton, metals and timber.

The principal exports are iron ore, barytes, foodgrains, hides and skins, refined oil products, sugar, tobacco, oil cake scrap and twist and yarn.

Chairman: T. V. Venkataraman, I.A.S.; *Dy. Chairman:* K. S. Ramakrishnan, I.A.S.; *Secretary:* P. R. Narasimhan.

NEW MANGALORE: New Mangalore port is situated 9 kms. north of the existing minor port of Mangalore and is the 9th major port in the country. The cost was Rs. 444·20 million.

It is connected by a broad gauge railway line to Madras via Shornur and National Highway 17 connecting Bombay to Cape Comorin passes close by.

The port provides for 3 alongside berths to cater to (1) general cargo, (2) iron ore and manganese ore, (3) raw material import for fertiliser factory, (4) one shallow draft berth for export of finished fertilisers and (5) an oil jetty for handling of naphtha and petroleum products. The dredged depth available at all the alongside berths including oil jetty is 9·75 mtrs. The shallow draft berth has a draft of 6·15 mtrs.

The port has been well provided with storage facilities and cargo handling equipment, such as floating cranes, electric level luffing cranes, mobile cranes, pay loaders, tractor trailer units etc. — all of varying capacities.

Estimated annual traffic: The Port was expected to handle a traffic of about 0·44 million tonnes during 1977-78 and 0·56 milion tonnes in 1978-79. Main items of traffic are iron ore, manganese ore, fertilisers, tile, cement, foodgrain, salt, forest products, coffee and other general cargo.

In order to develop the port to cater to the needs of receiving 60,000 DMT ore carriers for export of iron ore the following developmental works at a cost of Rs. 385·3 million have been taken up.

1. Construction of iron ore berth; 2. deepening the lagoon, inner and outer approach channels, 3. Protection of entrance channel by extending the break waters on either side from 3·66 mtr. contours to 5·00 mtr. contours; 4. improving navigational aids; 5. additional harbour rafts for berthing and unberthing of bulk ore carriers; 6. bunkering facilities; 7. electrical installations, water supply connections; 8. extension of roads, drainage and other facilities.

Chief Administrator & Conservator of the Port: H. K. Panditaradhya.

MORMUGAO: A major port providing modern facilities in handling oil, iron and ferroginous manganese ores and general cargo traffic.

During 1976-77, the Mormugao port handled a total traffic of 13·45 million tonnes, which consisted of 12·8 million tonnes of iron ore, 0·45 million tonnes of manganese ore, 0·20 million tonnes of oil cake, sugar and aluminium ingots (all in exports) and 0·62 million tonnes of imports consisting of mineral oils, phosphoric acid and general cargo.

Development: A massive mechanical ore handling complex with a rated capacity of 8,000 T.P.H. is under execution at a cost of over Rs. 800 million. It was scheduled to be commissioned during 1978. A modern deep-drafted oil berth has already been commissioned.

Chairman: R. J. Majithia, I.A.S.; *Secretary:* A. B. Gadgil.

PARADIP: The deep-water, all-weather major port of Paradip is situated on the east coast in the Bay of Bengal. The port is 210 nautical miles south of Calcutta and 260 nautical miles north of Visakhapatnam.

Paradip is connected by broad-gauge railway system, national highway No. 5-A and State express highway to other parts of India.

The port has one iron ore berth, one general cargo berth and a mooring buoy berth. The iron ore berth is equipped with a mechanical ore handling plant with a rated capacity of 2,500 tonnes per hour. It can accommodate vessels of 60,000 DWT, 260 metres LOA and 11·9 mtrs. draught. The general cargo berth has a length of 290 metres and can accommodate vessels of 10·5 mtrs. draught. This berth is served with three 13-tonne shore cranes and is provided with transit sheds of 15,000 tonnes total storage capacity. Two additional transit sheds and two warehouses and large open stacking yards served by roads and rail are available. The port is equipped with most modern cargo handling equipments consisting of mobile cranes of 30-tonne capacity, forklifts, dumpers, etc. The mooring buoy berth can accommodate vessels of 11·9 metres draught and 260 metres LOA.

Traffic handled in 1976-77 was 3·3 million tonnes.

Chairman: Satya Ranjan Pal.

NEW TUTICORIN: The port is situated 8 kms. southeast of the existing Intermediate Port of Tuticorin and is the 10th major port of India.

It has four alongside berths with total quayage of 720 M, two of which have transit sheds (each of size 150 M × 36 M) and one oil mooring berth for handling fertiliser, salt, cement, coal, general cargo and petroleum products. The port can receive vessel with draught upto 8·25 M (27′) at all times. There is a hazardous cargo shed with 11 compartments (a total of 650 sq. m. of floor area) for the storage of the various classes of cargo under the IMCO code. A fumigatorium for fumigating 2,000 bales of cotton at a time is available.

The cargo handling equipment include 4 electric shore cranes (two of 3-tonne capacity each, one of 5-tonne capacity and another one of 10-tonne capacity), 12 forklift trucks of 3-tonne capacity each and 9 mobile cranes of capacity ranging from 3 to 50 tonne. All the berths, sheds and warehouse are served by railway lines connected to the Southern Railway on the metre gauge. The port is also linked directly to national highway 7A.

Chief Engineer, Administrator and Conservator of the Port: D. I. Paul, B.E. (Hons.), M.I.E.

VISAKHAPATNAM: Ships drawing upto 10·21 metres having a length upto 195 metres can enter the inner harbour. Ships drawing up to 15·3 mtrs. and having a length upto 270 mtrs. can be accommodated at the outer harbour ore berth.

The inner harbour consists of six east quay berths, two west quay berths, an oil wharf consisting of two berths, one mechanised fertiliser berth, three jetty berths and one mooring berth. It can accommodate 14 ships along-side and one in moorings. All the quay berths are equipped with electric cranes, transit sheds, railway lines, road approaches etc.

The outer harbour, with an iron ore berth — finger type jetty (OB I and OB II) capable of accommodating two ore carriers, each of 100,000 DWT, simultaneously on either side of the jetty, equipped with mechanised ore handling plant capable of loading iron ore at 8,000 tonnes per hour, has been commissioned.

A dry-dock, 137·16 mtrs. long, 18·44 mtrs. wide, 5·63 mtrs. deep can accommodate ships of 122 mtrs. in length and 4·9 mtrs. draft. A graving dry-dock is available for dry-docking ships upto 70,000 DWT.

The port has 4 transit sheds capable of accommodating 36,500 tonnes of cargo. The 2 storage sheds at the S. L. Canal area can store about 13,200 tonnes.

Two large warehouses can be used for the storage of cargo awaiting shipment.

The stacking capacity for iron ore is 600,000 tonnes. For stacking mineral ores, a vast area of about 80,000 sq. mtrs. is available.

Open space measuring about 180,000 sq. mtrs. is available for storage of pig iron, steel materials, rock phosphate, sulphur, general cargo etc.

Chairman : R. Srinivasan ; *Dy. Chairman* : T. R. Prasad ; *Secretary* : Y. Parthasaradhi.

EAST COAST PORTS (1976-77)

Ports	Receipts (Rs.)	Expenditure (Rs.)	No. of passengers embarked and disembarked	Imports in tonnes	Exports in tonnes	Total tonnage of cargo handled
Cuddalore	207,000	873,943	—	5,261	32,632	37,893
Kakinada	2,942,399	353,476	—	6,895	643,121	650,016
Nagapattinam	495,000	589,447	6,444	55,675	21,782	77,457
Tuticorin	6,445,544	5,947,695	—	395,552	526,155	921,707
Rameswaram	263,344	187,352	103,191*	232	581	813
Colachel	67,880	20,643	—	—	54,400	54,400
Pilakarai	7,720	26,276	—	—	3,937	3,937
Komban	25,326	100,133	—	3,107	—	3,107

* Includes 49,475 repatriates from Sri Lanka.

MINOR PORTS OF MAHARASHTRA STATE (1976-77)

Ports	No. of passengers embarked & disembarked		Imports in tonnes	Exports in tonnes
	Steamer passenger traffic	Creek passenger traffic by launch & ferry services		
1	2	3	4	5
Vengurla Group of Ports	1,123	608,750	9,160	781,013
Vijaydurg " "	78,158	1,082,710	11,274	3,271
Ratnagiri .. "	34,239	1,888,319	33,985	3,157
Rajpuri " "	74	678,434	7,102	1,593
Bandra " "	—	1,891,097	3,434	47,619
Mora " "	—	1,731,127	41,902	38,289
	113,594	7,880,437	106,857	874,942

MINOR PORTS OF KERALA (1976-77)

Ports	Receipts (Rs.)	Expenditure (Rs.)	No. of passengers embarked & disembarked	Imports in tonnes	Exports in tonnes	Total tonnage of cargo handled
Calicut (including Beypore)	519,730	897,691	1,064	59,359	72,280	134,639
Alleppey	48,341	438,818	—	6,275	—	6,275
Neendakara	639,928	800,214	—	17,562	66,125	83,687
Trivandrum	5,520	50,968	—	—	—	—
Quilon	19,763	113,644	—	—	—	—
Ponnani	5,427	21,879	—	26	—	26
Azhikode	16,861	10,143	—	—	—	—
Badagara	1,066	14,891	—	—	—	—
Cannanore	4,741	22,285	—	17	180	197
Tellicherry	6,658	36,136	—	—	1,181	1,181
Azhikkal	93,296	85,963	—	5,285	14,907	20,192
Kasargod	1,794	10,263	—	—	—	—

GUJARAT PORTS: There are in all 42 ports in Gujarat State of which Kandla is a major port, Diu and Daman are centrally administered ports while 11 intermediate and 28 minor ports are under the administrative control of State Government.

Cargo handled in tonnes by Gujarat group of ports (imports and exports respectively) during 1977–78 was: Mandvi 3,955; 73,676; Bedi 39,355; 857,490; Navlakhi 110,143; 23,327; Okha 47,784; 151,118; Porbandar; 9,670; 99,904; Veraval 39,678; 122,398; Bhavnagar 281,334; 46,137; Mahuva 18,212; 89,149; Bharuch 29,594; 1,883.

Intermediate Ports: Mandvi, Navlakhi, Bedi, Sikka, Salaya, Okha, Porbandar, Veraval, Bhavnagar, Bharuch and Surat.

Minor Ports: Koteshwar, Jakhau, Mundra, Jodya Pindhara, Rupen (Dwarka), Beyt, Kotda, Mangrol, Madhvad, Navabandar, Talaja, Gogha, Mahuva, Jafrabad, Pipavav, Rajpara, Khambhat, Dhahej, Bhagwa, Onjal, Billimora, Valsad, Umarradi, Vansiborsi, Kolak, Maroli, Umbergaon.

PORT DEVELOPMENT: A provision of Rs. 4,620 million has been made in the Five Year Plan beginning April 1, 1978 for development of major and minor ports. The Annual Plan outlay for 1978-79 agreed by the Planning Commission, is Rs. 1,002·37 million.

RAILWAYS

HISTORY: First railway (consisting of 14 four-wheeled teak coaches carrying 400 passengers) in India ran over a distance of 33·6 kms. from Bombay to Thana on 16th April, 1853. Development of rail communications, however, took place after 1858. Upto the revolt in 1857, railway was practically unknown, except for a few miles around Bombay, Calcutta and Madras.

The revolt highlighted the need for proper communications. Thus by 1871 a general system connecting the different provinces and the hinterland of each province with its ports was completed.

The Government of India took under direct management: The East India Railways — 1st January, 1925; Great Indian Peninsular Railway — 30th June, 1925; Burma Railways — 1st January, 1929; Southern Punjab Railway — 1st January, 1930.

Zonal Administration: The entire Government Railway system is now grouped into nine administrations (Headquarters within brackets): Southern Railway (Madras); Western Railway (Bombay); Central Railway (Bombay); Northern Railway (Delhi); Eastern Railway (Calcutta); South-Eastern Railway (Calcutta); North-Eastern Railway (Gorakhpur); North-East Frontier Railway (Maligaon, Gauhati); South Central Railway (Secunderabad).

New trains introduced during 1977-78: Tatanagar-Muzaffarpur Express (Tri-weekly); Tirupati-Hyderabad-Rayalaseema Express; Madras-Madurai *Vaigai* Express; Howrah-Bombay *Geetanjali* Express (Bi-weekly); Madras-Ahmedabad *Navjivan* Express and Jaipur-Bikaner Express (metre gauge).

SOME BASIC FACTS

No. of daily passengers: 9·0 million; first sleeper accommodation: 1954; total no. of sleeper coaches: 1,900 (1,400 broad gauge and 500 metre gauge); labour force: 1·47 million men and women; total route kilometrage: 60,666 kms.; no. of locomotives: steam — 8,263, diesel — 1,903, electric — 844; coaching stock: passenger carriages: 26,115; electric multiple unit coaches: 2,332; rail cars: 69; other coaching vehicles: 8,278; no. of wagons: 397,773; no. of tank wagons: 18,082; no. of trains daily: 11,113; no. of stations: 7,056; amount of freight carried daily: 0·5 million tonnes; railway budget separated from central budget: 1925; carrying capacity of wagons: 2 axle wagons—22 tonnes; 4 axle wagons—55 to 65 tonnes; gross load of average freight train: conventional (2 axle wagons)—2,230 tonnes—special (4 axle wagons)—3,650 tonnes; container service introduced: January, 1966; no. of trains running over 1,000 kms.: 75; no. of trains running over 2,000 kms.: 13; fastest train: Rajdhani Express (started 1969)—Delhi to Calcutta—covers 1,445 kms. in 17 hours—permissible speed—130 kms. p.h.; first electric train: 1925—Bombay V.T. to Kurla — 16 kms.; first double decker train service (Bombay-Pune) inaugurated April 12, 1978: no. of rail bridges: 111,309 (including 103,113 bridges having waterways); no. of level crossings: 41,125; longest rail-cum-road bridge in Asia at Rajahmundry over river Godavari: 2·9 kms; biggest marshalling yard: Mughalsarai — 6,000 wagons a day; longest railway platform: Kharagpur — 833 metres; total no. of seats: 2,074,106; no. of air-conditioned seats: 6,840; no. of first class seats: 160,849; mandays lost due to strikes: 15·82 million; total female staff: 22,489 including 10,713 in Cl. III posts (clerks/stenographers: 6,684; nurses 2,785 & 1,395 teachers) and 11,391 in Cl. IV; total female officers: 385; no. of licensed porters: 38,710.

Railway Accidents: The number of train accidents — collisions, derailments, level crossing accident and fires in trains — during 1964–65 and since 1970–71 onwards are tabulated below.

Year	Collisions	Derailments	Level crossing accidents	Fires in trains	Total
1964–65 ..	81	1,035	146	31	1,293
1970–71 ..	59	648	121	12	840
1971–72 ..	57	667	118	22	864
1972–73 ..	59	598	131	27	815
1973–74 ..	66	578	125	13	782
1974–75 ..	66	696	140	23	925
1975–76 ..	64	768	105	27	964
1976–77 ..	75	633	86	16	780
April to December 1977	42	543	67	9	661

Super fast trains: *The Frontier Mail* between Delhi and Bombay Central; *The Howrah-Kalka Mail* between Delhi and Howrah; *The Grand Trunk Express* between New Delhi and Madras Central; *The Air Conditioned Express* between Delhi and Madras Central; *The Deccan Queen* between Bombay V.T. and Pune; *The Brindavan Express* between Madras Central and Bangalore; *The Taj Express* between new Delhi and Agra Cantt.; *The Jayanti Janata Express* between Delhi and Muzaffarpur; *The Deluxe Express* between New Delhi and Howrah; *The Tamil Nadu Express* between New Delhi and Madras.

Railway Statistics (1976-77)

		Central	Eastern	Northern	North-Eastern
Total Route Kilometrage		5,892·70	4,229·78	10,710·76	5,103·97
Broad Gauge (including electrified kms.)		4,840·30	4,098·40	7,022·71	162·71
Metre Gauge		381·87	—	3,428·49	4,941·26
Narrow Gauge		670·53	131·38	259·56	—
Kilometrage (electrified)		614·76	1,208·46	822·25	—
,, (under construction)		—	—	—	—
Capital at Charge (Rs. million)		6,262·30	5,100·01	6,128·60	1,545·9
Gross Revenue (Rs. million)		3,221·62	2,488·23	3,139·54	829·6
Working Expenses (Rs. million)		2,260·53	2,463·49	2,658·21	1,003·9
Net Revenue (Rs. million)		961·09	424·74	481·33	—174·3
No. of Locos	Steam	814	1,061	1,346	816
	Diesel/Electric	269	137	190	—
	Diesel/Hydraulic	57	51	65	—
	Electric	176	260	121	—
Electric Motor Coaches		260	189	—	—
No. of Passenger Coaches (including other coaching vehicles, but excluding brake vans)		2,893	3 677	4,589	3,285
Passenger carrying capacity	Air Conditioned (B.G.)	316	1,031	292	—
	,, (M.G.)	—	—	72	78
	First Class (B.G.)	—	4,926	11,677	129
	,, (M.G.)	11,343	—	2,207	5,914
	,, (N.G.)	—	62	426	—
	Second Class (B.G.)	—	116,260	196,334	4,836
	,, (M.G.)	131,487	—	45,346	133,472
	,, (N.G.)	—	2,293	3,831	—
No. of Passengers Carried ('000)		837,507	515,160	350,028	207,086
No. of Goods Wagons (covered)		29,084	32,340†	39,520	18,205
No. of Special Wagons		9,816	9,137†	2,716	4,044
No. of Goods Wagons (open)		9,415	22,070†	20,603	5,024
Tonnes Carried ('000)		54,349	73,366	55,184	14,033
No. of Staff		186,323	212,191	214,072	98,887

		North-East Frontier	South-Central	Southern	South-Eastern	Western
Total Route Kilometrage		3,628·13	6,161·07	7,578·73	6,989·95	10,336·84
Broad Gauge (including electrified kms.)		639·49	2,918·42	2,561·82	5,510·93	3,084·33
Metre Gauge		2,901·25	2,873·04	4,868·62	—	6,117·69
Narrow Gauge		87·48	369·61	148·46	1,479·02	1,134·82
Kilometrage (electrified)		—	—	166·44	1,401·28	496·13
,, (under construction)		—	—	—	253·53	620·25
Capital at Charge (Rs. million)		2,239·46	3,160·5	5,025·8	8,988·25	5,563·69
Gross Revenue (Rs. million)		627·74	1,800·8	1,655·0	3,658·95	2,950·20
Working Expenses (Rs. million)		903·31	1,411·3	1,815·5	2,384·09	2,299·80
Net Revenue (Rs. million)		(—) 268·57	389·5	(—) 160·5	1,274·86	650·40
No. of Locos	Steam	473	864	916	765	1,228
	Diesel/Electric	88	147	245	205	271
	Diesel/Hydraulic	—	—	33	52	52
	Electric	—	—	20	246	57
Electric Motor Coaches		—	—	45	38	189
No. of Passenger Coaches (including other coaching vehicles, but excluding brake vans)		2,411	2,371	4,715	3,197	5,256
Passenger carrying capacity	Air Conditioned (B.G.)	—	—	981	1,201	2,933
	,, (M.G.)	56	—	—	—	—
	First Class (B.G.)	2,718	5,173	—	17,711	10,106
	,, (M.G.)	4,493	2,543	16,162	—	8,625
	,, (N.G.)	206	48	—	736	655
	Second Class (B.G.)	22,986	78,612	—	137,586	84,643
	,, (M.G.)	64,201	50,403	257,084	—	112,594
	,, (N.G.)	967	7,370	—	11,033	8,126
No. of Passengers Carried ('000)		19,734	151,305	362,344	137,843	[illegible]
No. of Goods Wagons (covered)		7,579	13,942	33,029	14,155	39,830
No. of Special Wagons		2,092	1,722	—	56,243	11,612
No. of Goods Wagons (open)		[illegible]	[illegible]	—	14,787	[illegible]
Tonnes Carried ('000)		8,766	32,230	25,351	90,539	38,771
No. of Staff		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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† In terms of [illegible]

Central; *The Andhra Express* between New Delhi and Hyderabad; *The New Delhi-Karnataka/Kerala Express*; *The Jammu Tawi-Bombay Central Express*; *The Pink City Express* between Delhi and Jaipur; *The Coromandal Express* between Howrah and Madras; *The Gomati Express* between New Delhi and Lucknow; *The Vaigai Express* between Madras Egmore and Madurai; *The Geetanjali Express* between Bombay VT and Howrah; *The Ispat Express* between Howrah and Rourkela; *The Steel Express* between Howrah and Tatanagar; *The Kovai Express* between Madras and Coimbatore; *The Howrah-Asansol Express; The Konarak Express* between Bhubaneswar and Secunderabad & *The Minar Express* between Bombay V.T. and Secunderabad.

Ticketless Travel : In 1976-77 the railways arrested 3·47 million ticketless travellers and 2,576 corrupt members of railway staff. The railways earned Rs. 25·40 million from fines levied on ticketless travellers.

Pilferages : There were 82,926 cases of pilferages during 1977–78 against 86,985 during 1976–77. The Railways paid Rs. 54·70 million as compensation in 1977–78 against Rs. 54·60 million in 1976–77.

ROADS

Length of Roads in 1914 : 273,000 kms.

Length of Roads in April, 1975 : 1,188,000 kms.

Metalled Roads : 493,370 kms.

Unmetalled Roads : 694,740 kms.

Above total includes 189,000 kms. of tracks made by Community Development projects.

National Highways : The Union Government is responsible for the system of National highways formed in 1947. There are 55 roads classified as National Highways in India. Total 28,682 kms.

These are : (1) Delhi–Amritsar (2) Jullundur–Srinagar-Uri (3) Delhi–Calcutta (4) Agra–Bombay (5) Thane-Pune–Bangalore–Madras (6) Cuttack–Madras (7) Dhule–Calcutta (8) Banaras–Cape Comorin (9) Delhi–Ahmedabad–Bombay (10) Ahmedabad–Kandla (11) Rajkot–Porbandar (12) Pune–Vijayawada (13) Delhi–Fazilka–Pakistan (14) Agra–Bikaner (15) Jabalpur–Bhopal–Bisra (16) Solapur–Chitaldurg (17) Ambala–Simla–Tibet (18) Delhi–Lucknow (19) Lucknow–Shivpuri (20) Jhansi–Lakhnadon (21) Allahabad–Mangawan (22) Barauni–Lucknow (23) Pipra–Raxaul–Nepal (24) Gorakhpur–Banaras (25) Mohania–Patna–Bhaktiarpur (26) Bahi–Cooch Behar (27) Sivok–Gandak (28) North Salmara to river Brahmaputra (29) Jamshedpur–Gobindpur (30) Randhi–Tatanagar (31) Dalkhola–Behrampore–Calcutta (32) Barasat–Bangaon–Pakistan (33) Goalpara–Gauhati–Saikhoa Ghat (34) Makum–Lekhapani (35) Kamargaon–Imphal–Burma (36) Jorhat–Shillong–Bangladesh (37) Kolaghat–Haldia (38) Sambalpur–Cuttack (39) Raipur–Vizianagaram (40) Madras–Dindigul (41) Krishnagiri–Ranipet (42) Ernakulam–Cape Comorin (43) Madurai–Dhanushkodi (44) Nasik–Pune (45) Belgaum–Panaji (46) Haridaspur–Paradip Port (47) Chandigarh–Manali (48) Nowgong–Manipur Road (49) Shillong–Agartala (50) Palayam Kottai–Turicorin (51) Pathankot–Kandla (52) Panvel–Panaji–Mangalore–Trichur (53) Cortalim–Mormugao (54) Rourkela–Talchar (55) Bangalore–Hassan–Mangalore.

During the 28 years ending March 1975, 13,000 kms. of National Highways have been widened to 2-lane carriageways; 231 major bridges have also been built.

Fifth Plan : An investment of Rs. 3,276 million on development of National Highways has been proposed for the Fifth Plan period. Rs. 2,529 million would be spillover from the Fourth Plan. The government proposed to spend Rs. 650 million on conversion of National Highways around big cities to four-lane traffic. During the period 1974-79, it was hoped that 4,000 kms. would be converted to four-lane ones and advance work on 3,800 kms. would also be done but the allocation for National Highways has since been reduced from Rs. 4,810 million to Rs. 3,276 million. So these targets will not now be achieved.

State-wise length of National Highways (in kms. as in April, 1975).

Andhra 2,372; Assam 1,365; Bihar 2,117; Gujarat 1,352; Haryana 682; Karnataka 1,968; Kerala 772; Madhya Pradesh 2,676; Maharashtra 2,848; Meghalaya 217; Nagaland 103; Orissa 1,687; Punjab 667; Rajasthan 2,089; Sikkim 62; Tamil Nadu 1,804; Uttar Pradesh 2,466; West Bengal 1,637; Himachal Pradesh 594; Manipur 211; Tripura 123; Jammu & Kashmir 534; Union Territories 326. Total length 28,682 kms.

Express Highways : Four express highways have been built for fast movement of traffic. Two are in Bombay, the Eastern and Western Express highways. The third runs between Calcutta and Dum Dum airport, the fourth between Sukinda mines to Paradip port in Orissa. The fifth, almost 100 kms. long will connect Durgapur to Calcutta. Work on the last is in progress.

International Highways : There are two categories of International highways. The first are the main arterial routes linking the capitals of the countries and, the second, routes joining main cities, ports etc. with the arterial network.

The main arterial highway links India with Lahore in Pakistan and Mandalay in Burma running through Amritsar-Delhi-Agra-Calcutta-Golaghat-Imphal. The two link highways are one through Agra-Gwalior-Hyderabad-Bangalore to Danushkodi and the other from Barhi to Kathmandu. The other links will be Agra-Bombay; Delhi-Multan; Bangalore-Madras and Golaghat-Ledo.

Border Roads : A Border Roads Development Board was formed in 1960 to develop communications in north and north-eastern border areas.

World's Highest Road : The road from Manali in Himachal Pradesh and Leh in Kashmir runs at an average altitude of 4,267 metres (14,000 feet) and negotiates four very high passes varying from 4,876 metres (16,000 feet) to 5,486 metres (18,000 feet).

Revenue for Motor Transport : The estimated expenditure on roads in 1975-76 is about Rs. 3,677 million. This is made up of Rs. 2,147 million on road construction or improvements and Rs. 1,530 million on maintenance.

During the same period the Central and State Governments earned 13,276 million as taxes from road users, which is made up as under :

Central Revenue : Motor spirit and diesel oil duties, tyre excise and import duties and vehicle parts imports duties Rs. 9,332 million.

State Revenue : Vehicle taxes and passengers and goods taxes and sales taxes on motor fuel Rs. 3,944 million.

Road Traffic : The number of motor vehicles in use in India is shown in a table in the section "Automobile Industry".

Roads Maintained by State Governments and Local Bodies as on 31-3-75 (in kms.)

State		Surfaced Roads	Un-surfaced Roads	Total*
Andhra Pradesh	..	50,934	41,348	92,282
Assam	..	6,877	23,291	30,168
Bihar	..	37,810	81,604	119,414
Gujarat ..	..	24,825	20,973	45,798
Haryana ..	..	15,576	10,816	26,392
Himachal Pradesh	..	2,983	10,184	13,167
Jammu & Kashmir	..	5,743	8,229	13,972
Karnataka ..	..	55,283	40,164	95,447
Kerala	..	27,749	89,530	117,279
Madhya Pradesh	..	35,022	53,283	88,305
Maharashtra ..	..	47,912	55,848	10,376
Manipur ..	..	1,245	1,771	3,016
Meghalaya ..	..	1,064	5,473	6,537
Nagaland ..	..	1,133	4,637	5,770
Orissa	..	13,446	34,315	47,761
Punjab	..	15,152	6,840	21,992
Rajasthan ..	..	23,840	19,917	43,757
Sikkim	..	46	161	207
Tamil Nadu ..	..	56,563	47,116	103,677
Tripura ..	..	1,250	4,322	5,572
Uttar Pradesh	..	38,026	86,693	124,719
West Bengal ..	..	21,905	34,167	56,072
Union Territories	..	8,986	14,059	23,045
Total	..	493,370	694,741	1,188,111

* Excluding lengths of cart tracks not regularly maintained. India has the largest network of National Highways in Asia.

Road traffic in 1973-74 was more than 6 times that of 1951 in the passenger-bus field and nearly 10 times in the field of goods haulage. The extent to which the road system needs to be improved to cater to the traffic demands can be seen from the fact that bad roads are costing the country about Rs. 2,000 million annually in increased wear and tear of vehicles and additional fuel consumption.

		Volume of road traffic	Percentage share of road in total road and rail traffic
Goods Traffic :			
1950–51	..	6 billion tonne-kms.	12·00
1955–56	..	9 ,, ,,	13·00
1960–61	..	17 ,, ,,	16·20
1965–66	..	34 ,, ,,	22·50
1968–69	..	40 ,, ,,	24·00
1973–74	..	65 ,, ,,	30·70
1978–79 (Fifth Plan estimate)		110 ,, ,,	—
Passenger Traffic :			
1950–51	..	23 billion passenger kms.	25·60
1955–56	..	31 ,, ,,	32·50
1960–61	..	57 ,, ,,	42·20
1965–66	..	82 ,, ,,	46·10
1968–69	..	98 ,, ,,	47·80
1973–74	..	130 ,, ,,	49·01
1978–79 (Fifth Plan estimate)		180 ,, ,,	—

Nationalised Transport : Nationalised bus service almost cover the major parts of Gujarat, Maharashtra, Orissa, Manipur and Himachal Pradesh.

No nationalisation has taken place in Goa and Pondicherry, but in the remaining parts of the country the extent to which services have been nationalised varies from one State to another.

In the country as a whole the number of nationalised buses increased from 26,494 in 1966 to 52,157 in 1976.

The freight transport is operated by certain State transport organisations such as those in Assam, Orissa, Uttar Pradesh, Jammu and Kashmir, Sikkim, Tripura and Himachal Pradesh and also by the Central Road Transport Corporation. The number of goods lorries operated by nationalised concerns is, however, less than one per cent of the total goods vehicles in India.

Selected Data on Roads in India

(Thousand kms.)

	Main national roads	Secondary roads	Other roads	Total	Percentage paved	Density of total network in kms. per sq. km.
1970..	23·8	161·3	777·9	963·0	34·7	0·295
1971..	24·0	171·3	787·8	983·0	34·9	0·300
1972..	28·0	192·1	914·9	1,135·0	34·9	0·346
1973..	28·3	212·0	942·0	1,182·3	35·0	0·360
1974..	28·7	229·0	974·6	1,232·3	35·0	0·375
1975..	28·8	278·9	981·4	1,289·0	41·5	0·392

Progress in Five Year Plans

		Surfaced (Figures in kms.)	Unsurfaced (Figures in kms.)	Allocation Rs. in million
First Plan *	..	183,023	315,321	1,344·7
Second Plan	..	262,700	464,027	2,458·0
Third Plan	..	342,798	720,835	4,511·2
Fourth Plan	..	480,705	712,448	8,710·0
Fifth Plan	..	—	—	13,470·0

* Excludes Municipal, Forest, Irrigation & M.E.S. Roads.

MUNICIPAL CORPORATIONS (1978)

CIVIC rule in India is a little over a hundred years old. Now there are 1,500 Municipal Councils and 35 Municipal Corporations in India. They are functioning at : Agra, Ahmedabad, Allahabad, Bangalore, Bhopal, Bombay, Calcutta, Calicut, Chandranagore, Cochin, Delhi, Gangtok, Gauhati, Gwalior, Hubli-Dharwar, Hyderabad, Indore, Jabalpur, Kanpur, Kolhapur, Lucknow, Madras, Madurai, Nagpur, Patna, Pune, Raipur, Rajkot, Solapur, Simla, Surat, Trivandrum, Ujjain, Vadodara and Varanasi.

As a general rule the Municipal Councils and Municipal Corporations are established in towns having a population of more than 20,000 and cities having a population of more than 300,000 respectively.

The State Government makes an assessment of the revenue and population of the town/city through the district collector prior to the establishment of the Municipal Council/Corporation.

When a city's revenue exceeds Rs. 20 million, the Council representing the city is upgraded with the concurrence and approval of the State Government.

In fact it is the responsibility of the States to establish Municipal Councils and Corporations. Schedule 7 of the Constitution of India, elucidates this point. The rules and regulations and powers of the Municipal Councils and Corporations vary from State to State.

The following table gives vital statistics of the four major Corporations — Bombay, Calcutta, Delhi and Madras.

	BOMBAY	CALCUTTA	DELHI	MADRAS
Established	1888	1727	7–4–1958	29–9–1888
Area of Jurisdiction (sq. km.)	437	104	1,399	128·83
No. of Administrative wards	19	4	9	120
,, Electoral wards	140	100	100	120
,, Cemeteries	180	53	22	57‡
,, Markets (Corpn. owned and Private)	68 ; 18	9 ; 143	12	21 ; 49
,, Slaughter houses	1	5	3	2
,, Labour Welfare Centres	45	N.A.	41	Nil
,, Recreation Centres	346†	100	72	1
,, Slum dwellers	2,800,000	Approx. 1 million	N.A.	160,000 (approx.)
,, Pavement dwellers	N.A.	34,316	N.A.	2,170 families
,, Beggars	N.A.	41,000	N.A.	N.A.
,, Municipal employees	108,000	33,000	55,500 (approx.)	29,452
Annual wage and salary bill of Corporation (Rs. in million)	879	159	196·63 (approx.)	110
No. of Municipal Primary Schools	1,150	262	1,444	352@@
,, Pupils in Primary Schools	637,532	44,169	450,000 (approx.)	159,213
,, Municipal Secondary Schools	50	Nil	Nil	35
,, Pupils in Secondary Schools	66,402	Nil	Nil	29,418
,, Student-Teacher ratio	35 to 40 : 1	22 : 1	N.A.	40 : 1
Amount spent annually on education (Rs. in million)	170·82	12·34	100 (approx.)	26·41
No. of General Hospitals	22	24	14	21(*b*)
,, Beds in general hospitals	7,126	N.A.	1,403	N.A.
,, Patients treated in general hospitals	251,574	N.A.	62,000 (approx.)	N.A.
,, T.B. hospitals	1	2	1	2
,, Beds in T.B. hospitals	1,780	150	1,113	N.A.
,, T.B. Patients	17,502	4,931	6,269	N.A.
,, Dispensaries	128	24	94	63
,, Patients treated in dispensaries	14,187,783	305,292	2,800,000	2,600,000 (approx.)
,, Clinics	37	8	7 T.B. ; 3 V.D. ; & 3 Lep.	4
,, Patients	624,842	N.A.	21,000	93,452
,, Maternity homes	22 (+ 11 wards attached to hospitals)	4	9	48

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‡ Includes 36 private cemeteries. † Figure relates to 1976. N.A. — Not Available. @@ Includes 155 Middle Schools.

(*b*) Includes one communicable disease hospital.

	BOMBAY	CALCUTTA	DELHI	MADRAS
No. of Beds in maternity homes	1,599	150	126	487
„ Medical Colleges	4	5	Nil	Nil
„ Seats in Medical Colleges	885	N.A.	Nil	Nil
Birth-rate in the City	24·2	18·06	20·91	32·12
Death rate in the City	8·9	8·79	5·4	11·76
No. of Child Welfare Centres	N.A.	N.A.	69 + 42 (sub centres)	48
„ Family Welfare Centres	N.A.	32	33 + 83 („ „)	24
„ Doctors in City	N.A.	N.A.	N.A.	N.A.
„ Nurses in City	N.A.	N.A.	N.A.	N.A.
Population-Doctor ratio	N.A.	N.A.	N.A.	N.A.
No. of Swimming Pools	3	10	N.A.	2
„ Hotels — Grade I	129	956	N.A.	N.A. (approximately)
Grade II	899		N.A.	
Grade III	4,060		N.A.	
„ Residential hotels	539		N.A.	N.A.
„ Restaurants and eating houses	10,474	7,912	N.A.	N.A.
„ Shops	127,778	173,846	N.A.	N.A.
„ Commercial establishments..	64,190		N.A.	N.A.
„ Factories	N.A.		N.A.	859
Density of population (per sq. km.)	13,640	30,276	2,649	21,858
Population of City	7,591,000	3,148,746	4,473,601	2,938,000
No. of Cars	103,830		N.A.	N.A. (In Madras Distt.)
„ Lorries	20,590		N.A.	27,213
„ Buses	2,914	112,810	N.A.	8,751
„ Cycles	N.A.		N.A.	N.A.
„ Motor Cycles and Scooters	33,948	N.A.	N.A.	64,318
„ Passengers carried daily by buses	N.A.	350,990@	N.A.	1,920,000 (approximately)
„ Passengers carried daily by trains ..	N.A.	400,000	N.A.	N.A.
Tallest Building	Hotel Oberoi Sheraton*	N.A.	Vikas Vihar	LIC Building
Height	127·71 metres		N.A.	53·95 metres
Longest Road	Swami Vivekanand Road	Acharya Jagdishchandra Road	Ring Road	Anna Salai (Mount Road)
Length in km.	25·10	6·43	55	9·5
Longest Bridge	Road overbridge on the South of Andheri Railway Station	Rabindra Setu (Howrah Bridge)	L. Lajpatrai Marg overbridge	Elphinstone Bridge
Length in metres	501·70	N.A.	838·8	233·46
No. of Telephones	N.A.	166,051	N.A.	N.A.
„ Fire Stations	19	17	13	14
„ Fire Hydrants..	9,563	N.A.	7,000	N.A.

Administrative Personnel

Municipal Commissioner	B. K. Chougule	J. N. Kaul	Virendra Prakash	T. H. Ibrahim Mohamed
Public Relations Officer	K. T. Pandit	S. Barik	Basudev Sharma	—
Chief Engineer	T. K. Santoke	B. C. Mitra	J. D. Goyal	G. Nandagopal

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@ Only State Transport services. * Tallest building in India. N.A.—Not Available. † Water supply & sewage disposal Undertaking. ‡ Electric supply connections.

NEWSPAPER STATISTICS

BRIEF HISTORY : Press had its beginnings in India when the first newspaper, a weekly double sheet called "Bengal Gazette", was started by James Augustus Hickey on January 29, 1780 at Serampore near Calcutta.

Many other newspapers followed in quick succession (19 were started before the end of the century). Most of these were in English and were published, edited and read by Englishmen. In spite of their interesting editorial contents which consisted of political and private scandals the newspaper circulation did not exceed 100.

The first Indian owned newspaper the "Bengal Gazette" was published by Gangadhar Bhattacharjee in 1816 (Price Re. 1/-). Many independent and well-conducted papers flourished during the administration of Governor-General Lord Hastings, who adopted a liberal policy of self-censorship for the press in 1818. One such magazine was "Calcutta Journal" a bi-weekly with a circulation of 1,000.

However, a revision of policy by John Adam in 1823 necessitated the closure of "Calcutta Journal". Later under liberals like William Bentinck who replaced John Adam in 1828 and Sir Charles Metcalf who succeeded Bentinck press in India enjoyed greater freedom.

Many other Indian language newspapers were started between 1816–1822. "Shri-Mumbai-na-Samachar", started as a Gujarati weekly in 1822, by Fardoonji Marzban. It became a daily in 1832 and is the forerunner of the oldest living newspaper today, the "Bombay Samachar".

In Bengal between 1818 and 1855 as many as 99 newspapers and periodicals were started. The average life of each of these publications was 5 years. During the same period only 10 newspapers were published in the north and an insignificant number in the south.

The first railway line in 1853 and the first telegraph line in 1851 contributed to the growth and dissemination of news.

After the mutiny of 1857 restraints on the press were reimposed by Act XV of 1857. Of the 35 publications of 1853, six survived till 1857.

Important Legislation :

1. Act XXV of 1967 — regulating printing presses and newspapers.
2. Vernacular Press Act of 1878 — to restrain the vernacular press. Repealed four years later.
3. Indian Official Secrets Act was passed in 1889.

Important Dates :

1861	Editor Robert Knight of "Bombay Times" combined with "Standard" and the amalgamated "Telegraph and Courier" to form the "Times of India".
1865	"Pioneer" was started in Allahabad.
1868	"Amrit Bazar Patrika" was started in Calcutta.
1872	"Civil and Military Gazette" began publication.
1872	Robert Knight started "The Statesman" in Calcutta.
1878	"Hindu" was founded in Madras.
1881	Bal Gangadhar Tilak started "Kesari" in Marathi and "Mahratta" in English.
1915	Press Association of India was formed.
1935	Photogravure process was first used in India to print "The Illustrated Weekly of India".
1937	Freedom of Press granted.
1938	The Associated Press of India sent its first message on a teleprinter circuit.
1939	With the outbreak of the Second World War the Defence of India Rules were framed. Rule 41 reimposed controls on the press.
1947	India's independence guaranteed freedom of the press under Articles 13 and 19 of the Indian Constitution.
1948	Audit Bureau of Circulation formed.
1949	Press Trust of India started.
1951	Press (Objectionable Matters) Act No. LVI was passed.
1952	Newsprint Control Order passed by Government of India.
1975	Congress government imposes censorship on all newspapers and publications.
1977	Janata Government revokes censorship and restores freedom of press (see "Events" for details).

PRESENT POSITION

The 20th annual report of the Registrar of Newspapers for 1975 (latest available) shows a steady growth. The number of newspapers rose to 12,423 in 1975 from 12,135 in 1974. The increase in circulation was 730,000.

The progress was significant in small papers which increased from 7,113 in 1974 to 7,517 in 1975. Small newspapers also claimed 46·1 per cent of the total net circulation.

Language Press : A term used for Indian language newspapers and periodicals.

More than 50 per cent of the regional languages had papers with a total circulation of over one million. Three languages had papers with a circulation of more than 2 million each. These were Tamil (3·42 million), Malayalam (2·66 million) and Marathi (2 million).

Ownership Pattern : Individuals continued to own 7,541 of the 12,423 newspapers — 60·7 per cent.

Circulation : The total circulation of all newspapers was 33·82 million in 1975 against 33·09 million in 1974— an increase of 2·2 per cent.

Among the single edition papers "Ananda Bazar Patrika" daily of Calcutta had the highest circulation of 290,086.

Among the multi-edition newspapers "Indian Express" with a circulation of 431,146 was the highest. "Malayalam Manorama" of Calicut was the second highest with 300,165.

Among the weeklies the highest circulation was attained by "Kumudam" a Tamil journal of Madras with 447,204. The "Malayalam Manorama", a weekly from Kottayam, held the second place with a circulation of 343,513 copies.

Among the non-weekly periodicals the top position was held by "The Reader's Digest" with a circulation of 189,527 copies.

State-wise : Maharashtra took the first place with 1,805 newspapers followed by Uttar Pradesh 1,557, Delhi 1,517 and West Bengal 1,232 newspapers each. Uttar Pradesh, however, claimed first place in the number of dailies.

The four metropolitan cities of Delhi, Bombay, Calcutta and Madras claimed 31·2 per cent of the total number of newspapers published.

HISTORIC DATES 1900-1976

(Whilst attempts have been made to compile all historic dates from various records, the Editor regrets any omissions. The reader is requested to draw our attention to any missing dates.)

1900

March 5 — Indian Plague Commission submits report on Mr. Haffkine's innoculation system. **April 15** — Plague riots break out in Kanpur segregation camp. 5 constables die, troops step in and kill 10 people. Plague regulation gets modified. **December 9** — Swami Vivekananda disembarks in Bombay and entrains for Calcutta. **27-29** — Sixteenth annual session of Indian National Congress meets at Lahore. N. G. Chandavarkar presides.

1901

January 16 — Mahadeva Govinda Ranade passes away in Bombay. He was an eminent leader of Indian National Congress. **March** — Gen. Sir A. Palmer becomes Commander-in-Chief of India. **November** — M. K. Gandhi leaves Natal (South Africa) for India. **December 19** — M. K. Gandhi arrives in Bombay. **20** — Gopal Krishna Gokhale becomes additional member of Council of Governor-General of India. **22** — Rabindranath Tagore inaugurates his *Brahmacharya Ashram* (school) at Shantiniketan. **26-28** — Seventeenth session of Indian National Congress meets at Calcutta. Dinshaw E. Wacha presides.

1902

March 26 — Gopal Krishna Gokhale delivers his first budget speech in Imperial Legislative Council. **April 8** — Outlaws ambush and kill eight British soldiers. **July 12** — Swami Vivekananda passes away at age of 39. **August 6** — Govt. publishes Blue Book on famine and relief operations. Figures show mortality during year is 750,000 which includes 230,000 deaths due to cholera and plague. **December 23-26** — Surendranath Banerjee delivers 18th presidential address of Indian National Congress.

1903

January 1-3 — Coronation Durbar at Delhi proclaims King Edward VII as Emperor of India. **August 22** — Bal Gangadhar Tilak advocates boycott of articles of British manufacture in a students' meeting at Poona. **December 28-30** — 19th session of Indian National Congress meets at Madras under presidentship of Lal Mohan Ghose.

1904

April — Mahatma Gandhi establishes *Indian Opinion*, Weekly journal representing Indians' point of view, in Phoenix, South Africa. **August 8** — Lord Curzon gets extension as Viceroy of India. **August 14** — Dadabhai Naoroji criticises British Imperialistic policies in India at International Socialist Congress at Amsterdam. **November 15** — Former Viceroy Lord Northbrook passes away. **December 16-28** — Sir Henry Cotton delivers 20th Presidential address of Indian National Congress.

1905

April 13 — Earthquake wrecks towns of Sultanpur and Mandi killing about 15,000 people. **30** — In India plague kills 57,000 in a week according to reports. **July 20** — Govt. announces decision to partition Bengal despite several protests. **August 19** — King of England accepts resignation of Lord Curzon and appoints Lord Minto as Viceroy. **September 1** — Govt. of India, in a proclamation, announces partition of Bengal from October 16, 1905 — and appoints J. B. Fuller as Lieut. Governor for Eastern Bengal. **December 27-30** — G. K. Gokhale delivers 21st Presidential address of Indian National Congress at Banares.

1906

January — Prince and Princess of Wales visit India. **August 6** — Sri Aurobindo Ghose starts *Bande Mataram* under his editorship. **December 26-29** — 22nd session of Indian National Congress meets at Calcutta under presidentship of Dadabhoy Naoroji. **27** — Members of *Indian deputation* (G. K. Gokhale and Lala Lajpat Rai) sail for England. **30** — Muslim Educational Conference at Dacca resolves to form All India Muslim League for furtherance of its objects.

1907

January 2 — Bal Gangadhar Tilak and G. K. Gokhale embark upon nation-wide campaign to convince public of their respective party's position. **May 9** — Police arrests Lala Lajpat Rai and deports him to Mandalay. **December 26-27** — Rash Behari Ghosh presides over 23rd session of Indian National Congress at Surat.

1908

April 19 — Congress session at Allahabad adopts draft of amended constitution of Congress. **30** — Khudiram Bose, a young man of 18, kills two English ladies by throwing bomb meant for Mr. Kingsford, Dist. Judge. **June 13** — Khudiram Bose gets death sentence for murder of two English Ladies — Mrs. and Miss Kennedy — in bomb attack. **21** — Bomb wrecks mail train at Barackpur and injures 3 passengers. **24** — Bombay police arrests B. G. Tilak for his article *The Country's Misfortune* in " *Kesari* " dated May 12, under sections 124-A and 153-A of I.P.C. **August 18** — Madame Cama, India's first woman revolutionary, unfurls India's National Flag in foreign country. **October 24** — Chittaranjan Das devotes himself to Sri Aurobindo's Alipore Bomb Conspiracy case. **November 2** — Govt. of India issues proclamation commemorating fiftieth anniversary of the Crown's assumption of direct rule in India. **December 29-30** — Rash Behari Ghosh presides over 23rd session of Congress at Madras.

1909

January 15—Charan Bose kills Asutosh Biswas by shooting, public prosecutor in anarchist conspiracy case. **March 19** — Charan Bose is executed. **May 6** — Judgement in Alipore Conspiracy case awards death to two, transportation for life to 7, penal servitude to 5 and acquits 22. **August 19** — Sir Badruddin Tayabji dies. **November 13** — Viceroy Lord Minto, escapes bomb attack. **13-22** — Gandhiji sails for South Africa. He writes his 30,000-word manuscript, Hind Swaraj, on board s.s. "Kildonian Castle". **December 21** — Magistrate Jackson of Nasik court was shot dead. **27-29** — Madan Mohan Malaviya presides over 24th session of Congress held at Lahore.

1910

April 25 — Gandhiji writes to G. K. Gokhale from South Africa summarising progress of Indian struggle for equal rights. **September 30** — Plague claims 448,319 lives in 12 months according to official statistics. **November 22** — Lord Hardinge of Penhurst succeeds Lord Minto as Viceroy of India. **December 26-29** — 25th session of Congress meets at Allahabad. Sir William Wedderburn presides.

1911

March 18 — Fifth decennial census places total population of India at 315,156,396. **September 30** — Plague takes lives of 713,377 people in past 12 months according to official statistics. **December 2** — King George and Queen Mary, first British Sovereigns to visit India, arrive in Bombay. **12** — King holds Coronation Durbar at Delhi, announces shifting of capital from Calcutta to Delhi. **15** — King lays foundation for new Govt. buildings at Delhi. **26–28** — Bishan Dhar delivers 26th presidential address of Indian National Congress at Calcutta.

1912

January 10 — King George and Queen Mary leave India for England. **June** — G. K. Gokhale sails for England. **October 22** — G. K. Gokhale arrives in Cape Town, South Africa, from England. **December 23** — Lord Hardinge escapes bomb attack by Rash Behari Bose, a Govt. servant. **26–28** — 27th Indian National Congress meets at Bankipur. R. N. Mudholkar presides. Jawaharlal Nehru attends session for first time.

1913

December 26 — 28th session of Indian National Congress meets at Karachi under presidentship of Nawab Mohammad.

1914

June — Lokmanya Tilak gets release after his term of imprisonment from Mandalay. **December 17** — Gandha Singh commits dacoity in Papali village of Hissar district to raise funds for revolutionaries. Instead of Gandha Singh, Pandit Kanshi Ram and associates were hung. **28–30** — Bhupendranath Basu delivers Presidential address of Indian National Congress at Madras.

1915

February 19 — Gopal Krishna Gokhale passes away. **22** — M. A. Jinnah said about Gokhale : He was a great man, respected by Muslims as much as Hindus and trusted by both. **April 30** — In Lahore Sedition case leader Bhai Para and 23 others get death sentence and 27 transportation for life. **November 5** — Sir Pherozeshah Mehta, a founder of Indian National Congress, dies. **December 27–30** — Satyendra Prasanna Sinha delivers the 30th Presidential address of Indian National Congress.

1916

February 4 — Mahatma Gandhi performs opening ceremony of Banares Hindu University. **10** — Sohan Lal Pathak was executed in Mandalay. **12** — Nawab Syed Mohammed Bahadur who presided over Karachi session of Indian National Congress, dies. **April 4** — Frederick John Napier Theisger assumes office as Viceroy. **September** — Rabindranath Tagore sails for United States. **3** — Mrs. Annie Besant founds Home Rule League. **November 19** — Pandit Bishan Narayan Dhar, who presided over Calcutta session of Congress, dies. **December 26–30** — Ambika Charan Mazumdar, delivers 31st Presidential address of Congress at Lucknow. Jawaharlal Nehru meets Mahatma Gandhi for first time.

1917

February 9 — Gandhiji addresses Imperial Citizenship Association and condemns inhuman system of indentured labour. **23** — Commissioner of Delhi serves notice prohibiting Lokmanya Tilak from entering Delhi Province. **April 10** — Gandhiji meets Dr. Rajendra Prasad at Patna and J. B. Kripalani in Muzuffarpur in connection with indigo planters of Champaran. **14** — Gandhiji receives notice from Commissioner to quit Champaran. He visits neighbouring villages and meets peasants of area. **June 30** — Dadabhoy Naoroji, Grand Old Man of India, dies. (He was a founder member of Indian National Congress and delivered presidential addresses in 1886, 1893 and 1906). **July 10** — Lord Chamberlain, Secretary of State for India, resigns. **August 20** — British Government announces Montague Scheme regarding responsible government for India as a goal of British policy. **November 29** — Air Force Constitution Act comes into force. **December 26–29** — Mrs. Annie Besant delivers 32nd Presidential address of Indian National Congress at Calcutta.

1918

February 22 — Textile Mill owners of Ahmedabad declare a lock-out. **March 22** — Viceroy unveils marble bust of Gopal Krishna Gokhale. **March 29–31** — Hindi Sammelan meets at Indore. Gandhiji presides. **April 2** — British Prime Minister appeals to Govt. and people of India to save Asia from German tyranny. **4** — Home Dept. of Govt. of India refuses passport to B. G. Tilak to proceed to England. **8** — M. A. Jinnah protests denial of passport to B. G. Tilak, at a public meeting in Bombay. **27–29** — Madan Mohan Malaviya and Gandhiji attend War Conference convened by Viceroy in Delhi. Gandhiji addresses Conference in Urdu. **May 9** — Mrs. Sarojini Naidu presides over 24th Madras Provincial Conference at Conjeevaram. **August 21** — All India Moderate Conference meets in Bombay with Sir D. E. Wacha as Chairman and Surendranath Bannerjee as President. **22** — Council of Servants of India Society resolves to abstain from Special Congress of Moderates. **31** — All India Muslim League meets at Bombay under Chairmanship of Raja Saheb of Mohmudabad. **29–September 1** — Special session of Indian National Congress meets in Bombay under presidentship of Mr. Imam Hasan. (The session was called to discuss the Montague-Chelmsford Reforms which disappointed Indians). **October 8** — Gandhiji moves *Young India* from Bombay to Ahmedabad. **November 13** — B. G. Tilak writes to British Prime Minister, Mr. Lloyd George, on behalf of Home Rule League and Indian National Congress, expressing hope for peace, liberty and human co-fraternity for India, as defined in Armistice signed on November 11, 1918. **December 26–31** — Madan Mohan Malaviya presides over 33rd Session of Indian Congress. He denounces Montague-Chelmsford Reforms.

1919

January 1 — Mrs. Annie Besant presides over All India Ladies Conference. Government publishes Rowlatt Report. **February 8** — Mopla revolt breaks out in Malabar coast of Kerala. **28** — Gandhiji issues press statement condemning Rowlatt Bill. **March 4** — Viceroy talks to Gandhiji at New Delhi about Rowlatt Bill. **23** — Gandhiji begins fast and exhorts hartal throughout India as protest against Rowlatt Bill. **28** — M. A. Jinnah writes to Viceroy to say Rowlatt Bill shocks all Indians. **31** — Military attacks peaceful satyagrahis in Delhi. **April 6** — Madan Mohan Malaviya resigns from Imperial Council. Whole of India observes *hartal*. **10** — Rowlatt Bill riots take place at Ahmedabad. **12** — Demonstrators clash with police at Lahore, Bombay, Calcutta and Amritsar. **13** — Gen. Dyer proclaims martial law and bans public meetings at Amritsar. Later at Jallianwala Bagh Gen. Dyer's men open fire on peaceful meeting and kill nearly 400 and injure more than 1,000. **15** — Martial law comes into force in Lahore. **16** — Serious riots break out in Gujranwala, Akalgarh, Hafizabad. **22** — Gen. Campbell orders inhabitants of Gujranwalla to salute all British officers,

26 — Govt. arrests Benjamin Guy Horniman, editor, *Bombay Chronicle* and deports him to England. **May 11** — Mrs. Annie Besant resigns presidentship of Home Rule League. **27** — Dr. Rabindranath Tagore returns to Govt. of India title "Knight" conferred on him. **June 3** — Madan Mohan Malaviya gets elected to Viceregal Council. **8** — Maulana Shaukat Ali and Mohammad Ali are lodged in Tul jail. **24** — Gandhiji presides at Bombay meeting protesting the deportation orders on Horniman and Rowlatt legislation. **July 19** — Sir Sankaran Nair resigns membership of Executive Council of Viceroy in protest against Martial Law. **October 17** — India celebrates *Khilafat* Day. **November 8** — Nationalist Council meets in Madras. **15** — C. F. Andrews leaves for South Africa. **23** — All India *Khilafat* Conference meets at Delhi. **December 25** — Maulana Mohammad Ali joins Indian National Congress. **27** — Motilal Nehru delivers 34th Presidential address of Indian National Congress at Amritsar.

1920

January 1 — King of England orders release of Maulana Abul Kalam Azad and other political prisoners. **10** — India becomes a member of League of Nations. **18** — Maulana Abul Kalam Azad meets Gandhiji in connection with *Khilafat* movement. **19** — Gandhiji leads *Khilafat* deputation to Viceroy. **February 21** — *Khilafat* conference meets at Meerut. Gandhiji reveals his non-co-operation programme for first time. **26** — First Indian *Khilafat* deputation reaches London. **March 14** — Police raids office of Bengal Provincial *Khilafat* Committee. **20** — Congress Democratic Party brings out its manifesto. **April 28** — Gandhiji becomes president of Home Rule League. **June 2** — Govt. of India publishes revised draft rules for Provincial councils, Indian Legislative Assembly and Council of State in a Gazette Extraordinary. **August 1** — Bal Gangadhar Tilak passes away. Gandhiji returns his Kaiser-i-Hind medal and Boer War Medal to Viceroy. **September 4-9** — Congress Session meets at Nagpur; C. Vijairaghavachariar delivers 35th presidential address. **8** — AICC's special session at Calcutta passes Gandhiji's resolution on non-co-operation. **December 26-31** — 36th Annual session of Congress meets at Ahmedabad under presidentship of Hakim Ajmal Khan.

1921

January 13 — R. N. Mudholkar passes away. **19** — C. R. Das, eminent Barrister of Calcutta, suspends practice and resolves to devote life for Nation's cause. **31** — Gandhiji inaugurates Gauria Sarva Vidyayatan (Bengal National College) with Subash Chandra Bose as first principal. **February 9** — Government serves Lala Lajpat Rai with prohibitory orders from entering North West Frontier Province to make enquiries regarding grievances of people there. **20** — Mahant Narayan Das and group of Nankana in Punjab kill 150 Akali Sikhs. **April** — Subhash Chandra Bose resigns from Indian Civil Service and joins politics as an aggressive nationalist. **1** — AICC meets at Bezwada and decides to collect Rs. 10 million for Tilak Swaraj Fund. **2** — Lord Reading assumes office as Viceroy of India. **13** — Gandhiji meets Viceroy: People all over India observe Jallianwala Bagh anniversary. **22** — A new political party "Indian Progressive Federation" comes into being under leadership of Aga Khan. **23** — Sarojini Naidu urges ladies at Bombay meeting to discard foreign clothes and take to spinning and hand-made cloth. **May 3** — Swami Govindananda receives sentence of transportation for 5 years in connection with N.C.O. work. **July** — Rabindranath Tagore returns to India from Europe. **1** — Gandhiji announces Tilak Swaraj Fund exceeds Rs. 10 million. **16** — Subhash Chandra Bose meets Gandhiji in Bombay to discuss ways and means to achieve independence. **29** — Govt. of India publishes "Agreed Summary" of Gandhiji — Reading (Viceroy) interview. **31** — People light a huge bonfire of foreign cloth, worth millions of rupees, in presence of Gandhiji in Bombay. **August 20** — Mopla Rebellion breaks out at Tirurangadi, Malabar, Kerala. **24** — Govt. of India declares Martial Law in disturbed parts of Malabar, Kerala. **29** — Mrs. Annie Besant presides over Bombay Provincial Reforms Conference. **30** — Labour disturbances break out in Bombay mill areas. **September 1** — Picketing at foreign cloth shops begins at Barabazar, Calcutta. **10** — Marwari Chamber of Commerce representatives meet Gandhiji in connection with boycott of foreign cloth. **18** — Indian National Congress elects C. R. Das as its president. **20** — Dr. S. C. Banerjee was sentenced to one years' jail for N.C.O. work. **26** — Trial of Ali Bros. begins at Karachi. **October 8** — Gandhiji lights second bonfire of British cloth in Bombay. **17** — Mahant Narain Das of Nankana Sahib of Punjab and 7 others are sentenced to death and 17 others to 7 years R.I. for murder of Akali Sikhs. **30** — Police detachment attacks Mopla rebels and kills 26. In attack 7 policemen die. **November 2** — Mopla leader Ali Musaliar and 37 others are sentenced to death. **4** — AICC at Delhi authorises programmes of civil disobedience and boycott of foreign cloth. **6** — C. R. Das along with 4 others are arrested and beaten by police in Calcutta for picketing foreign cloth shops. **13** — Ahmedabad P. C. C. decides Bardoli and Kaira as venues to start Civil disobedience from November 23. **18** — Gandhiji undergoes 5-day fast. **20** — 100 Mopla prisoners carried in closed goods wagon of a train die of asphyxia. **December 6** — Mopla revolt comes to halt. (Since outbreak of revolt 1,826 Moplas were killed, 1,500 wounded, 5,400 captured and 14,000 surrendered). **7** — C. R. Das, Urmila Devi, Suniti Devi and others are arrested for selling *Khaddar*. **16** — S. Srinivasa Iyengar renounces title and seat in Council in protest against Govt. repression. **22** — Trials of Lala Lajpat Rai, Santanam, Gopi Chand and Malik Lal Khan begin at Lahore Central jail. **23** — Inauguration of Visva Bharati takes place. Properties at Shantiniketan are legally transferred to it by trust deed. — Mahadev Desai gets 1-year R.I. for publishing manuscript edition of *Independent*. **24** — Prince of Wales arrives in Bombay. City observes *hartal*. **27-28** — 36th session of Congress meets at Ahmedabad. Hakim Ajmal Khan, acting president, delivers address as president C. R. Das is in jail.

1922

January 7 — Police arrests Mopla King V. Kunhamad Harf in Malabar. **13** — Prince of Wales arrives in Madras where hartal is observed. Police opens fire on mob. **25** — Amendment of Factory Act provides 60-hour week, weekly rest day and raises minimum age of child-workers from 9 to 12 years. **29** — Gandhiji, Sardar Patel and Tyabji meet at Bardoli to formulate plan of mass Civil Disobedience. **February 4** — Gandhiji intimates Viceroy and Govt. of India about mass civil disobedience movement at Bardoli under his leadership. **5** — A mob of more than 300 non-co-operators attacks Chauri Chaura police station and kill 22 policemen. Govt. bans all Congress organisations. **10** — G. Ramachandra Rao of Cocanada refuses to take oath in court and gets S. I. for one month. **12** — Gandhiji suspends mass civil disobedience as violence creeps in. He undergoes fast for 5 days to do penance for Chauri Chaura and Bombay tragedies. **March 9** — Gandhiji is arrested; Lala Lajpat Rai is sentenced to one-year R.I.; Montague resigns as Secretary of State for India. **17** — Prince of Wales ends tour and embarks for Far East. **April 16** — Rabindranath Tagore lays foundation for University at Shantiniketan. **May 25** — Mrs. Kasturba

Gandhi presides over Gujarat political conference at Anand. **July 25** — Members of Civil Disobedience committee reach Madras; Pt. Nehru addresses public meeting. **December 26-31** — 37th Session of Indian National Congress meets at Gaya under presidentship of C. R. Das.

1923

January 1 — Deshbandhu Das and Motilal Nehru form Swarajya Party. **February 9** — Hindu-Muslim riots break out in Ahmedabad. **May 7** — Hindu-Muslim riots break out in Amritsar. **June 18** — Police arrests Jamnalal Bajaj in Nagpur. **July 4** — Jamnalal Bajaj is sentenced to 18 months' R.I. **September 25** — Congress meets at Delhi and adopts resolution to propose candidates for the Leg. Assembly and Provincial Councils in order to obstruct legislation. **October 14** — Swarajya Party issues its manifesto on "Wrecking the Constitution from within the Reformed Councils." **23** — Deshbandhu Das publishes a daily paper *Forward*. **25** — Police arrests Dhanna Singh with a live bomb who explodes it and kills himself, five policemen and an Englishman. **December 20** — Hindu-Muslim riots break out at Lahore. **28 — January 1, 1924** — 38th Congress session meets at Cocanada under presidentship of Maulana Mohammed.

1924

January 12 — Gandhiji undergoes operation at Sassoon Hospital, Poona, for appendicitis. **March 16** — Bhupendra Nath Basu passes away. **April 4** — Gandhiji takes over Editorship of *Young India* and *Navjivan* papers. **12** — Criminal Procedure Code Amendment Act removes racial distinctions in courts. **May 25** — M. A. Jinnah delivers presidential address at Lahore session of Muslim League. **July 27** — Communal riots break out in Delhi. **August 1** — Pt. Motilal Nehru and M. R. Jayakar are elected as directors of *Bombay Chronicle*. **17** — Gandhiji arrives in Delhi in connection with Hindu-Muslim riots. **September 18** — Gandhiji undergoes 21-day fast for Hindu-Muslim Unity. **October** — Subash Chandra Bose is arrested and lodged in Alipore jail. **8** — Gandhiji ends fast. **25** — Govt. amends Criminal Law of Bengal Ordinance to deal with revolutionary violence. **December 26-27** — Gandhiji delivers 39th presidential address of Congress session at Belgaum.

1925

January 1 — Lord Reading announces determination to end terrorism of criminal organisations in Bengal. **February 28** — Fifty-four terrorists are convicted in Lahore Conspiracy case. **March 7** — Gandhiji arrives in Madras *en route* to Vaikom. **May 1** —Gandhiji addresses meeting in Bombay and explains programmes regarding Hindu-Muslim Unity, removal of untouchability and use of spinning wheel. **2** — In a Faridpur meeting C. R. Das offers co-operation to Govt. and asks for Dominion Status for India. **June 16** — Chittaranjan Das dies at Darjeeling. **23** — Mrs. C. R. Das becomes Editor-in-Chief of *Forward* of Calcutta. **July 28** — Pt. Motilal Nehru accepts seat on Steering Committee. **August 6** — Sri Surendranath Banerjee passes away. **25** — Pt. Motilal Nehru is elected president of Lower House. He is first Indian to hold this position. **October 29** — Lord Irwin is appointed to succeed Earl Reading as Viceroy and Governor-General of India. **November 25** — A deputation leaves for South Africa to enquire into resident Indians' condition there. **December 26-28** — Sarojini Naidu delivers 40th presidential address of Indian National Congress at Kanpur.

1926

January 19 — Dwijendranath Tagore passes away at Shantiniketan. **February 7** — Elkins, A.S.P. in Madan Sub Divn. of Peshawar, is shot dead by a tribesman. **9** — Viceroy announces creation of Royal Indian Navy and reconstruction of Indian Mercantile Marine. **22** — T. Rangachariar and Pt. Madan Mohan resign from National Party. **March 25** — Trade Union Act is passed. **April 12** — Erle Handiside, Commandant of Frontier Constabulary, is murdered. **13** — Hindu-Muslim riots break out in Calcutta. **June 14** — Communal riots take place at Rawalpindi. **July** — Communal riots in Calcutta. **15** — Hindu-Muslim riots break out again in Calcutta. **17** — Viceroy appeals to communal leaders to maintain peace. **August 7** — Defying Bengal Government's orders Pt. Madan Mohan Malaviya enters Calcutta. **September 19** — Gandhiji participates in a garden party given by South African delegation, Bombay. **November** — M. A. Jinnah returns unopposed to Assembly. **December 26-28** — 41st session of Indian National Congress meets at Gauhati. S. Srinivasa Iyengar delivers presidential address.

1927

January 5 — Samuel Hoare, Secretary of State for Air, inaugurates Egypt to India Air service. **February 1** — Rai Sahib Harbilas Sarda introduces a Bill prohibiting Hindu child marriage below 12 for girls and 15 for boys. **16** — First railway, connecting India and Nepal, is inaugurated by Maharaja of Nepal. **March 14** — Abdul Rashid is sentenced to death for murdering Swami Sharadhanand. **20** — Muslim leaders meet at Delhi under presidentship of M. A. Jinnah and discuss Hindu-Muslim unity. **May 7** — Communal riots in Lahore. **19** — Nagpur Satyagrahis are arrested. **June 4** — Awami, leader of Nagpur Satyagraha movement, is sentenced to 4 years R.I. **July 23** — First Commercial Broadcasting station is inaugurated by Viceroy in Bombay. **August 29** — Viceroy opens Calcutta Broadcasting station. **September 4** — Communal riots kill 19 and injure 123 in Nagpur. **October 11** — Prof. Indra, S/o Swami Shradhanand, is arrested. **November 2** — Jawaharlal Nehru visits Moscow during tenth anniversary celebrations of Russian Revolution. **December 1** — Dr. Annie Besant inaugurates Boycott Committee. **17** — Accused Ashfaquallah, Rajendra Lahiri and Ram Parshad Bismil of Kakori Conspiracy case are hanged. **26** — M. A. Ansari delivers 42nd presidential address of Congress session in Madras. **29** — Hakim Ajmal Khan passes away. **30** — Hindustan Seva Dal Conference meets at Calcutta under presidentship of Subhash Chandra Bose. **30-31** — All India Muslim League holds its session at Calcutta.

1928

January 15 — All Party Boycott Conference held at Banaras under presidentship of Dr. Ansari, decides to boycott statutory commission and observe *Hartal* throughout India on 3rd February. **30** — Subash Chandra Bose is awarded Rs. 1,000 damage in Statesman libel case. **February 4** — Simon Commission arrives in India. **12** — Vallabhbhai Patel leads Bardoli satyagraha with Gandhiji's blessings. **19** — Maharaja of Nabha is deprived of title and allowances on charge of disloyalty to Government. **22** — Lord Irwin, Viceroy, declares Govt.'s determination to hold Simon Commission's enquiry. **March 1** — Campaign for boycott of British goods starts in Calcutta. **5** — East Indian Railway employees strike work for higher wages. **April 23** — Maganlal Gandhi, a freedom fighter, dies in Patna. **May 5** — Subhash Chandra Bose presides over Sixth Maharashtra Provincial Conference. **6** — Prof. Indra is released from jail. **28** — Jawaharlal Nehru presides over Kerala Provincial Conference at Payyanur. **31** — Simon Commission sails back. **June 24** — Non-official enquiry into Bardoli revenue settlement commences. **August 10** — Worli

Socialist Congress supports India's claims for self-government. **September 13** — Subhash Chandra Bose acts as an arbitrator of Jamshedpur strike. **October 11** — Simon Commission arrives again in India. **30** — Simon Commission arrives in Lahore ; Police assaults Lala Lajpat Rai and other leaders during protest meetings. **November 5** — Bardoli enquiry commences. **17** — Lala Lajpat Rai passes away as a result of police beatings on October 30. **29** — Lala Lajpat Rai day is observed throughout India and public meetings are held. **30** — Jawaharlal Nehru and students are beaten at Lucknow for black flag demonstrations against Simon Commission. **December 17** — J. P. Saunders, Asst. Supdt. of Police, is shot dead by a youth at Lahore. **22** — Nehru Committee report regarding communal representation in Legislative Assembly is out. Motilal Nehru delivers 43rd Presidential address to Indian National Congress at Calcutta.

1929

January 10 — Dr. Annie Besant bemoans Gandhiji's Non-Co-operation and Civil Disobedience programmes in an article in *New India*. **28** — Lord Irwin, Viceroy, inaugurates Legislative Assembly and pledges Br. Govt. will do everything to help India attain full national political structure. **29** — Pt. Motilal Nehru, commenting on Viceroy's speech, says door of negotiation is not closed. **February 9** — Subhash Chandra Bose addresses a youth conference in Patna and inspires youth to build a new society and nation. **18** — Black Flag demonstration greets Simon Commission in Madras ; Delhi Congress Working Cttee. decides to boycott foreign cloth and picket shops. **March 1** — Rabindranath Tagore sails for Canada on invitation of National Council of Education of Canada. **8** — Gandhiji arrives in Rangoon during his Burma tour. **30** — Weekly air mail service between England and India is inaugurated. **April 8** — Bhagat Singh and Batukeshwar Dutt are arrested for throwing bomb in Assembly. **9** — National Week in memorium of Jallianwala Bagh is observed with hoisting National Flag, meetings and processions. **14** — Simon Commission leaves for England. **June 12** — Bhagat Singh and his companion are sentenced to transportation for life. **July 5** — Gokaran Nath Misra passes away. **August 4** — Khwaja Hassan Nizami informs Dr. M. A. Ansari, that political salvation of Indian Muslims lies in their joining Indian National Congress. **9** — Gandhiji meets Jinnah and discusses communal question. **11** — Smt. Sarojini Naidu arranges a private meeting of Gandhiji with Jinnah and Ali Brothers in Bombay to amend the Nehru report and make it agreeable to all sections of Muslims. **September 14** — Jatindra Nath Das, aged 23, passes away after 64 days' hunger strike in Lahore prison. **23** — Legislative Assembly passes Child Marriage Bill prohibiting marriages of boys under 18 and girls under 14. **30** — Shivram Hari Rajguru is arrested in Poona with revolver and 13 rounds of ammunition. **November 17** — First death anniversary of Lala Lajpat Rai is observed in Lahore. **30** — Pt. Jawaharlal Nehru delivers presidential address of All India Trade Union Congress at Nagpur. **December 23** — Revolutionaries try to kill Lord Irwin, Viceroy, by blowing off train with time bomb. Viceroy receives Gandhiji, Pt. Motilal Nehru, Sir Tej Bahadur Sapru, M. A. Jinnah etc. to discuss Govt. proposals. **29** — Jawaharlal Nehru delivers 44th presidential address of Congress session at Lahore.

1930

January 5 — Earl Russell, Under Secretary of State for India, declares India will not be granted Dominion Status in near future. **February 24** — Bombay Government thank Gandhiji for getting millowners' dispute settled in Ahmedabad. **March 6** — Gandhiji proceeds to Dandi to commence Salt Satyagraha. **7** — Sardar Vallabhbhai Patel is arrested in Borsad taluk while addressing public meeting. **8** — Gandhiji addresses public meeting at Ahmedabad. **12** — Gandhiji starts Civil Disobedience with a batch of 79 satyagrahis at 6·30 in the morning. **April 1** — Child Marriage Act comes into effect. **2** — Pt. Madan Mohan Malaviya tenders resignation of Assembly seat. **4** — Riots erupt among railway strikers in Bombay. **6** — Gandhiji breaks Salt Law with 79 others by preparing salt at Dandi. **7** — Ramdas Gandhi and several other salt satyagrahis throughout India are arrested and convicted. **9** — Communal riots erupt in Nasik and kill 100 people. **11** — Pt. Motilal Nehru renames Anand Bhavan as Swaraj Bhavan and dedicates it to public. Communal Riots break out in Bombay and Calcutta. **13** — Pt. Malaviya campaigns for boycott of foreign clothes in Punjab. **17** — Pt. Motilal Nehru takes charge of AICC office. **May 4** — Gandhiji is arrested and taken to Yeravada jail. **6** — *Hartal* is observed all over India in connection with arrest of Gandhiji. **15-17** — Riots take place in Bengal. **16** — Kamaladevi Chattopadhyaya is sentenced to six months S. I. **23** — Mrs. Sarojini Naidu and Manilal Gandhi sentenced to 9 months and 1 year jail for revolutionary activities. **30** — Governor-General issues ordinances to counteract picketing, non-payment of taxes and tampering with loyalty of Govt. servants. **June 3** — Muslims in Bombay take out procession in sympathy with Congress under leadership of S. A. Brelvi, Editor, *Bombay Chronicle*. **10** — Rajendra Prasad, Prof. Bari, Baldev Sahay and others injured by lathi charge on procession at Patna. **18** — Bomb explosions at Lahore, Amritsar, Lyallpur, Gujranwala, Sheikhupura and Rawalpindi. **July 1** — Motilal Nehru and Dr. Syed Mahmud sentenced to 6 months S. I. for being members of Cong. Working Cttee. *Boycott Week*. Congressmen make house to house visits and get pledges from citizens to boycott foreign goods. **5** — Maulana Shaukat Ali presides over Exec. Cttee. meeting of All Parties Muslim Conference at Simla. **10** — M. S. Aney is arrested and convicted to 6 months S.I. for breaking Forest laws. **17** — Police opens fire on volunteers picketing toddy shops and kill 3 and injure many at Madurai. Viceroy allows Sir Tej Bahadur Sapru and M. R. Jayakar to see Gandhiji, Jawaharlal Nehru and others in jail. **23** — Sir Sapru and Jayakar interview Gandhiji in Yeravda jail. **28** — Sir Sapru and Jayakar meet Nehru at Nainital jail. **August 2** — Sardar Vallabhbhai Patel, Pt. Madan Mohan Malaviya, Jairamdas Daulatram and Dr. Hardikar, arrested in Bombay. **7** — Maulana Abul Kalam Azad acts as president of Congress in place of Vallabhbhai Patel. **8** — The Depressed Classes Conference meets at Nagpur under Dr. B. R. Ambedkar. **14** — Martial law proclaimed in N.W.F. Province. **16** — Martial law proclaimed in Peshawar. **21** — Maulana Abul Kalam Azad, acting Cong. President, arrested and taken to Meerut jail. **22** — Grosby, the additional Suptd. of Police of Dacca, shot dead. **25** — Bomb attempt on Sir Charles Tagart, Commr. of Police, Calcutta. **26** — Dr. Ansari officiates as President of All India Congress Cttee. **28** — SICC declared unlawful ; Vallabhbhai Patel, Pt. Malaviya and Dr. Ansari are arrested. **29** — Bengal Inspector General of Police shot and seriously injured. **31** — Ramchandra Sainik, Director of War Council, arrested at Lahore. **31** — G. V. Mavlankar and others arrested at Ramour. **September 2** — Mass arrests of Congressmen in Bombay, Calcutta, Ahmedabad, Surat for picketing foreign cloth shops. **6** — Motilal Nehru released. **15** — R. S. Pandit, son-in-law of Motilal Nehru, sentenced to one year R.I. on charges of sedition. **18** — Special Tribunal sentences Dinesh Chandra to transportation for life in Bomb outrage case on Sir Charles Tagart. Sultan Mohammad, member and Ajit Singh, Director, 'War Council'' arrested at Jallianwala. **23** — Asaf Ali, third Director of "War Council" arrested at Delhi. **October 7** — In Lahore conspiracy case Bhagat Singh, Rajguru and Sukhdev sentenced to death; Kishorilal, Mahavirsingh, Vijay Kumar Sinha, Shiv Varma, Gaya Parshad and Premnath Tewari to transportation for life. **17** — Smt. Parvati Devi, D/o Lala Lajpat Rai, arrested at Lahore; The police raid Swaraj Bhavan, Allahabad. **24** — Mahadev Desai, Mahatma Gandhi's secretary, released from jail. **November 8** — Political prisoners in Banaras jail resort to hunger strike. **12** — King of England presides over Round Table Conference as King Emperor of India to discuss question of India's independence. **24** — S. A. Brelvi of *Bombay Chronicle* and Sadanand of *Free Press* arrested in Bombay. **December 1** — S. A. Brelvi sentenced to 5 months and a fine of Rs. 250. **2** — Cong. Organisations all over country are declared unlawful. **11** — Sir W. Churchill criticises Congress movement in India. **18** — Jawaharlal Nehru fasts in protest against flogging of prisoners. **21** — Forty ladies in Delhi jail resort to fast. **23** — Governor of Punjab, during convocation ceremony of Punjab University, shot and wounded. Two students arrested. **26** — Bomb explosion injures three at Delhi Central Rly. Stn. **28** — S. Satyamurti, President of Tamilnad Council of Action, arrested for defying police ban on Flag Salutation ceremony.

1931

January 1 — Smt. Kamala Nehru arrested under Criminal Law Amendment Act. **4** — Maulana Mohamad Ali passes away in London. **6** — Vallabhbhai Patel and Ramdas Gandhi convicted under Criminal Law Amendment Act. **10** — S. Satyamurti and eleven others, including a woman, convicted. **18** — Subhash Chandra Bose arrested at Berhampur. **22** — Jamnadas Dwarakadas, a congress worker of Bombay, arrested. **25** — Lord Irwin, Viceroy, cancels notification under Criminal Law Amendment Act and releases Gandhiji and other members of Working Cttee. from jail. **26** — Gandhiji released from prison along with Jawaharlal Nehru, Mrs. Sarojini Naidu and 25 others. **February 6** — Pt. Motilal Nehru expires at 6·40 A.M. at Lucknow. **17** — Gandhiji meets Lord Irwin. **19** — Gandhiji meets Lord Irwin again on invitation. **March 1** — Gandhiji negotiates truce with Viceroy. **4** — Civil disobedience movement to be discontinued, amnesty to persons convicted of non-violent offences in connection with civil disobedience, withdrawal of ordinances, restoration of confiscated or attached properties are granted by Govt. in truce agreements. **23** — Viceroy rejects Bhagat Singh's mercy petition. Bhagat Singh executed at midnight. **27** — In Navjiwan Conference at Karachi, Subhash Chandra Bose, in presidential address questions usefulness of truce agreement between Gandhiji and Viceroy in view of execution of Bhagat Singh. **29** — 45th Session of Indian National Congress meets at Karachi under presidentship of Vallabhbhai Patel. **31** — Young revolutionaries greet Gandhiji with black flags because of Bhagat Singh's execution. **April 17** — Lord Willingdon, new Viceroy, arrives in India. **18** — Gandhiji bids farewell to Lord Irwin. **23** — Jawaharlal Nehru given rousing reception on landing at Colombo. **May 7** — In encounter with police at Lahore Jagdish Chandra, a revolutionary, is killed. **June 27** — B. R. Gorlie, District Session Judge of 24 Parganas, shot dead by a Bengali youth. Police kill assailant. **July 22** — A youth shoots Bombay Governor Sir Ernest Hoston. He escapes as bullet strikes metal button of pocket book. **August 1** — Congress Wkg. Cttee. approves Gandhiji's National Flag with slight modification. **27** — Gandhiji and Willingdon sign fresh agreement reserving rights of Congress to adopt defensive direct action. **29** — Gandhiji sails for London to attend Round Table Conference. **September 11** — Subhash Chandra Bose addresses Tamilnad Navjivan Conference. **12** — Gandhiji arrives in London. **15** — Gandhiji addresses Federal Structure Cttee. **30** — Lord Burnham declares Gandhiji as greatest enemy of British. **October 13** — Gandhiji addresses National Labour Club in London. **November 3** — Subhash Chandra Bose asks revolutionary elements in Bengal to rally round Congress banner and follow its programme. **5** — Gandhiji meets King George in London. **10** — Gandhiji addresses mass meeting at Friends' Meeting House in London. **December 5** — Gandhiji leaves for India. **25** — Abdul Ghaffar Khan arrested. **28** — Gandhiji lands in Bombay. **29** — Viceroy refuses Gandhiji's request for talks.

1932

January 2 — Subhash Chandra Bose arrested in Bombay. **4** — Gandhiji arrested in Bombay; Govt. declares Congress Working Cttee. unlawful. **5** — Dr. Rajendra Prasad, Congress President, arrested; Dr. Ansari becomes Cong. President. **8** — Dr. Ansari arrested. **9** — Rajagopalachari and S. Satyamurty arrested in Madras. **10** — Kasturba Gandhi and others arrested at Bardoli. **13** — The police takes into custody "Swaraj Bhawan" in Allahabad. **22** — Congress Funds in Bombay banks frozen. **26** — Mass arrests and convictions take place all over country on Independence Day. **February 6** — Sir Stanley Jackson fired at by a girl student at Convocation in Calcutta. **19** — Morarji Desai resigns as Dy. Collector and becomes Secretary of Gujarat Cong. Cttee. **March 15** — Smt. Kasturba Gandhi arrested and sentenced to 6 months R.I. by Bardoli magistrate. **April 4** — Maulana Shaukat Ali complains against Congress picketing in front of Muslim firms in Bombay. **22** — Smt. Sarojini Naidu sentenced to one year S.I. **24** — 46th session of Indian National Congress meets at Delhi under presidentship of Amrit Ranchhoddas Seth. **30** — Robert Douglas, Dist. Magistrate of Midnapore, shot dead by a Bengali youth. **May 16** — Riots break out in Bombay in which 100 are dead and 1,000 injured. **June 17** — Viceroy talks to Tej Bahadur Sapru and M. R. Jayakar. **July 7** — J. B. Kripalani arrested in Banaras. **8** — Tej Bahadur Sapru, M. R. Jayakar and N. M. Joshi resign membership of Consultative Cttee. of Round Table Conference. **August 4** — Two persons are arrested at Dinapur for attempting to hoist National Flag on Subjail. **16** — Prime Minister's award on communal representation in Indian Provincial Council announced. **21** — Punjab Hindu Conference at Lahore protests Communal award. **28** — Dr. Saifuddin Kitchlew arrested and sentenced to 2 years' R.I. for violating ban on entry into Lahore and Ambala. **September 12** — Gandhiji resolves to undergo fast unto death against Govt.'s decision to give separate electorates for depressed classes. **18** — 12 temples thrown open to depressed classes in Allahabad. **19** — Meetings held all over country against communal award. **20** — Gandhiji starts fast in Yeravda jail. **24** — Bomb explosion kills several Europeans in European Club at Chittagong. **26** — Gandhiji breaks fast. **October 5** — Pt. Madanmohan Malaviya and Shaukat Ali discuss inter-communal settlement. **31** — Viceroy refuses permission to Maulana Shaukat Ali for interviewing Gandhiji in jail. **November 17** — Purushottam Das Tandon arrested in Allahabad. **December 14** — Plenary session of Unity Conference meets in Allahabad under presidentship of C. Vijayaraghavachariar.

1933

January 1 — Gandhiji announces plan to undertake fast in sympathy with Kelappan in Kerala for getting temples opened for Harijans. **4** — Civil Disobedience Day celebrated all over country, lathi charges and mass arrests take place. **6** — Rajendra Prasad, Acting Cong. President, arrested at Bankipore. **7** — Pyarelal, Gandhiji's secretary, arrested from Mani Bhavan at Bombay. **14** — Kilappan meets Gandhiji at Yeravda jail and discusses temple entry issues. **18** — Rajendra Prasad is sentenced to 15 months R.I. **26** — Many are arrested and sent to jail all over country for celebrating Independence Day. **February 3** — Govt. of India decides to drop 'Delhi Conspiracy' case. **23** — Subhash Chandra Bose sails for Europe from Bombay. **March 1** — Govt. bans Calcutta session of Congress. **31** — Madan Mohan Malaviya, his son and grandson are arrested at Asansol station on their way to Calcutta session. **April 1** — Mrs. Sen Gupta delivers 47th presidential address of Calcutta Congress in place of Madan Mohan Malaviya. Many are lathi charged and arrested since session is banned by Govt. **23** — Dr. B. R. Ambedkar meets Gandhiji. **May 8** — Gandhiji is released from jail. **13** — M. A. Jinnah addresses Indian Students Union and urges need for united front in India. **28** — Andamans prisoners go on hunger strike. **July 17** — Viceroy refuses to meet Gandhiji. **31** — Gandhiji and his 33 followers rearrested and imprisoned in Sabarmati prison. **August 18** — C. F. Andrews meets Gandhiji in prison. **23** — Gandhiji is released unconditionally. **30** — Jawaharlal Nehru is released from jail to enable him to see his ailing mother. **September 10** — Jawaharlal Nehru meets Gandhiji. **12** — All India Library conference meets in Calcutta. **20** — Dr. Annie Besant passes away. **November 7** — Gandhiji starts Harijan tour from his Satyagraha Ashram, Wardha. **10** — Vithalbhai Patel passes away in Bombay.

1934

January 15 — Earthquake in North India. **16** — Gandhiji leaves Calcutta for his South Indian tour. **February 5** — Rangaswami Iyengar, Editor of *Hindu* passes away. **28** — Sikh National Conference condemns Premier's Communal Award. **April 7** — Hindu Mahasabha Working Committee declares Communal Award constitutes grave injustice to Hindu community. **18** — Rabindranath Tagore appeals to Govt. to release all political prisoners. **24** — Sir C. Sankaran Nair passes away. **May 8** — Sir John Anderson, Bengal governor, escapes revolver shot. **31** — Sir Samuel Hoare, Secretary of State for India, condemns Winston Churchill's and Lord Lloyd's reactionary policy against India. **June 12-13** — Cong. Working C'ttee. passes resolution on "White Paper and Communal Award." **25** — Gandhiji escapes bomb outrage on his car at Poona. **July 28** — Pt. Madan Mohan Malaviya and M. S. Aney form a new party styled "National Party." **August 29-30** — Provincial Kisan Conference meets at Gaya under presidentship of Purushottam Das Tandon. **October 1** — Dr. Rajendra Prasad accepts Presidentship of Congress. **26-28** — 48th Session of Indian National Congress meets at Bombay. Dr. Rajendra Prasad delivers presidential address. **November** — Subhash Chandra Bose publishes his own account of Indian Nationalism *The Indian Struggle*. **December 3** — Subhash Chandra Bose goes to Calcutta to meet his dying father Jankinath Bose. **7** — Khan Abdul Ghaffar Khan, Frontier Congress leader, is arrested at Wardha. **15** — Khan Abdul Ghaffar Khan is sentenced to 2 years R.I.

1935

January 2 — M. V. Abhyankar, Central Provinces Congress leader passes away in Bombay. **15** — Bhulabhai Desai is elected leader of Congress in Assembly. **20** — M. A. Jinnah is elected leader of Independent party in Assembly. **26** — M. S. Aney becomes leader of Nationalist Party in Assembly. **31** — Calcutta citizens protest against continued detention of Sarat Chandra Bose and demand his unconditional release. **May 6** — India celebrates H. M. King's silver jubilee. **23** — Mrs. Kamala Nehru leaves for Europe. **31** — Gandhiji meets Abdul Ghaffar Khan in Sabarmati jail; Quetta and surrounding districts are affected by earthquake shocks of severe intensity. Many die, famine prevails. **June 2** — Viceroy and Cong. President appeal for funds for relief of sufferers in Quetta earthquake. **July 8** — Sikh-Muslim tension — Curfew order in Lahore. **26** — Sarat Chandra Bose is released from prison unconditionally. **September 4** — Jawaharlal Nehru leaves for Europe after his release from jail to see his ailing wife. **22** — Indian Journalists Council condemns Criminal Law Amendment Bill at its Calcutta meeting. **23** — Conference of Harijans at Ahmedabad condemns Nasik decisions asking Harijans to change their religion. **November 28** — Golden Jubilee of Indian National Congress is celebrated all over India.

1936

January 1 — Depressed classes start mass satyagraha in United Province (Uttar Pradesh). **February 13** — Sir Dinshaw Wacha, Old Congress president, expires in Bombay. **March 12** — Jawaharlal Nehru returns to India with ashes of his late wife Smt. Kamala Nehru. **16** — Nehru meets Gandhiji at Delhi to discuss political situation. **April 12** — All India Muslim League passes resolution opposing Govt. of India Act, 1935. **12-14**—Jawaharlal Nehru delivers presidential address of 49th Session of Indian National Congress at Lucknow. **May 10** — Dr. M. A. Ansari (ex-president of Congress) expires in train while travelling from Dehra Dun to Delhi. **August 16** — Madam Cama passes away in Bombay. **October 25** — Gandhiji performs opening ceremony of Mother India temple at Banaras. **December 23** — All India Socialist Congress meets at Faizpur under presidentship of Jayaprakash Narayan. **27-28** — Indian National Congress meets at Faizpur. Nehru delivers 50th presidential address.

1937

January 1 — M. A. Jinnah makes a strong plea for Hindu-Muslim unity in Nagpur meeting. **3** — M. A. Jinnah asks Congress not to interfere in Muslim Affairs. **February** — Rabindranath Tagore delivers Convocation address of Calcutta University in Bengali (Normally this privilege had been given to Viceroys and Governors of Bengal). **March 15** — AICC decides to accept office where Congress is in majority. **17** — Subash Chandra Bose is released from prison in Calcutta. **21** — All India Political Prisoners' Relief Conference meets at New Delhi under presidentship of Sarat Chandra Bose. **28** — Congress leaders decline to form ministries without assurance of non-interference from Governors. **April 1** — India observes *hartal* as a protest against New Constitution. **6** — Rajendra Prasad urges Muslims to join Congress. **27** — Jawaharlal Nehru and M. A. Jinnah issue counter statements regarding political conditions in India. **June 2** — Hindu-Muslim riots take place in Bombay. About 2,000 are arrested. **July 9** — Dr. Khare forms first Cong. Ministry in Central Provinces. **15** — C. Rajagopalachari forms Cong. Ministry in Madras. **20** — Congress Ministries are formed in several provinces. **30** — Andamans political prisoners go on hunger strike on rejection of their demands by Govt. **August 4** — Viceroy meets Gandhiji at New Delhi. **6** — Bihar Govt. orders repatriation of Bihar prisoners from Andamans. **27** — Congress members in Bengal Assembly stage walk out during debate on Andamans prisoners. **28** — Gandhiji urges prohibition in Indian States and provinces where Congress has majority. **29** — Gandhiji urges Andamans prisoners to give up fast. **September 5** — Dr. Khan Sahib forms Frontier Ministry. **17** — Bombay Govt. returns confiscated properties in connection with Civil

Disobedience Movement. **30** — Jawaharlal Nehru seeks boycott of Japanese goods. **October 26** — Resolution demanding retention of *Bande Matram* as *National Anthem* of India is passed at Poona meeting. **31** — Jawaharlal Nehru, Subhash Chandra Bose and other Congress leaders deliver speeches at labour rally and urge people to unite and join Congress. **November 22** — Sir Jagdish Chandra Bose passes away. **December 5** — Bengal Government releases all women detenus unconditionally. **19** — Jayaprakash Narayan condemns Bihar Congress for putting ban on Kisan Sabha. **28** — All India Educational Conference discusses Gandhiji's Wardha Education Scheme in Calcutta.

1938

January 9 — China Day is observed all over India in response to an appeal by Congress President. **10** — Smt. Motilal Nehru passes away at Allahabad. **17** — Subhash Chandra Bose is elected president of Indian National Congress. Jayaprakash Narayan feels Gandhiji's ideas are old and need to be replaced by new ones. **25** — Subhash Chandra Bose and M. N. Roy discuss political situation in India. **February 5** — Gandhiji and Nehru write to M. A. Jinnah for definite statement on Muslim League's demands. **15** — Bihar and U.P. Ministries resign on issue of release of political prisoners. **19–21** — Subhash Chandra Bose delivers fifty-first presidential address of Indian National Congress at Haripura. **22** — Lord Linlithgow, Viceroy, makes statement on Constitutional crisis in U.P. and Bihar. **24** — Govind Vallabh Pant meets U.P. Governor regarding release of political prisoners. **March 2** — Maharaja of Indore allows temple entry to Harijans in his State. **April 5** — Sardar Vallabhbhai Patel launches prohibition campaign in Saran Dist. **6** — Jawaharlal Nehru writes to M. A. Jinnah on Congress policy towards Muslims and Muslim League. **8** — Gandhiji meets political prisoners in Calcutta presidency jail in connection with their release. **28** — Gandhiji meets M. A Jinnah at Bombay to discuss communal question. **May 1** — Congress members of Orissa Assembly pass resolution asking ministry to resign in protest against appointment of J. R. Dain as Acting Governor. **11–13** — Subhash Chandra Bose and M. A. Jinnah meet and discuss Hindu-Muslim question in Bombay. **20** — Gandhiji meets M. A. Jinnah in Bombay. **June 2** — Nehru sails for Europe. **11** — Subhash Chandra Bose, in meeting at Chittagong, appeals to youth to give up violence and strengthen Congress in work of attainment of Swaraj. **16** — C. Rajagopalachari opens All India Radio Station at Madras. **23** — Subhash Chandra Bose resigns leadership of Calcutta Congress Municipal party. **July 1** — Lord Halifax, Foreign Secretary for India, talks to Jawaharlal Nehru in London. **4** — Subhash Chandra Bose meets Khwaja Sir Nazimuddin, Home Minister of Bengal, and discusses question of Bengal detenus and political prisoners. **25** — Gandhiji writes to M. A. Jinnah on communal problems. Subhash Chandra Bose also writes to Jinnah. **26** — Congress Working Cttee. takes disciplinary action against Dr. N. B. Khare, C. P. Premier. **27** — R. S. Shukla is elected leader of. C. P Congress Assembly Party. **28** — R. S. Shukla forms C. P. Ministry. **August 16** — Subhash Chandra Bose releases for publication correspondence between him and Jinnah regarding Muslim settlement. **September 25** — Congress Working Cttee. in consultation with Gandhiji decides to take whatever action necessary in event of outbreak of hostilities. **October 2** — Congress Wkg. Cttee. expels Dr. N. B. Khare from Congress. **24** — Congress President issues appeal for funds for relief work in flood affected areas of Bengal. **November 9** — Gandhiji concludes his N.W.F. Province tour and returns to Wardha. **17** — Jawaharlal Nehru returns to India. **25** — In public meeting at Jullundur Subhash Chandra Bose declares India will resort to Satyagraha if Federal Constitution is forced. **December 3** — In an article, Gandhiji appeals to Princes to cooperate with Congress. **26–28** — 26th Session of All India Muslim League meets at Patna under presidentship of M. A. Jinnah. **29** — All India Muslim Students' Conference meet at Patna under presidentship of Raja of Mahmudabad.

1939

January 20 — Maulana Abul Kalam Azad withdraws his claim from Presidentship of Tripura Session of Congress leaving field for Subhash Chandra Bose and Dr. Pattabhi Sitaramayya. **25** — Sardar Vallabhbhai Patel, after informal consultation with Gandhiji and Nehru at Bardoli, announces it is unnecessary to re-elect Subhash Chandra Bose for presidentship of Congress. Dr. Pattabhi Sitaramayya decides to contest Presidential election. **27** — Jayaprakash Narayan and Swami Sahajanand Saraswati issue a joint statement on presidential election supporting Subhash Chandra Bose. **28** — Gandhiji in an article in *Harijan* draws attention to increasing indiscipline of Congress men. He also deplores corruption among them. **29** — Subhash Chandra Bose is elected as Congress President. **31** — Gandhiji says that Subhash Chandra Bose has achieved a decisive victory over his opponent Dr. Pattabhi Sitaramayya. He adds defeat of Pattabhi Sitaramayya is really his (Gandhiji's) since he had supported his candidature. **February 1** — Seth Jamnalal Bajaj, leader of Prajamandal reaches Jaipur to defy the ban on his entry into State. **2** — Subhash Chandra Bose discusses with Jawaharlal Nehru at Shantiniketan implications of Congress Presidential election. **3** — Kasturba and Maniben Patel are arrested at Rajkot on their entering State to offer Satyagraha. **5** — Seth Jamnalal Bajaj is arrested at Likri Bansi Railway Stn. **7** — Seth Jamnalal Bajaj is released at frontier of Bharatpur State. **13** — Subhash Chandra Bose meets Gandhiji at Wardha. **14** — Jawaharlal Nehru in his presidential address to All India States People's Conference at Ludhiana says Congress will intervene if States check progress of people. **21** — Congress leaders meet Gandhiji at Wardha. **22** — Thirteen out of 15 Congress members of Working Committee resign. **26** — Subhash Chandra Bose accepts resignation of 13 Working Committee members. **27** — Gandhiji arrives at Rajkot on peace mission. **March 2** — Subhash Chandra Bose replies to charges against him, made by Working Cttee. members who resigned, and others. **2** — Gandhiji writes to Thakore of Rajkot intimating his plan of fast unto death from next day. **3** — Gandhiji starts fast at noon. **7** — Gandhiji breaks fast as settlement reached in Rajkot crisis by intervention of Viceroy. **8** — Subhash Chandra Bose presides over All India Congress Working Committee meeting at Tripura. **9** — AICC expresses confidence in old Wkg. Cttee. members and urges Subhash Chandra Bose to elect new members as per Gandhiji's wishes. **10** — Subhash Chandra Bose delivers 52nd presidential address of Indian National Congress at Vishnu Nagar, Tripura. **15** — Gandhiji meets Viceroy and continues to stay at Delhi. **23** — On Gandhiji's advice Travancore civil disobedience movement is suspended. **27** — Travancore civil disobedience prisoners are released. **April 2** — Sir Maurice Gwyer, Chief Justice of India, gives his verdict on Rajkot dispute. **9–10** — Annual session of All India Kisan Conference meets under presidentship of Acharya Narendra Dev at Gaya. **18** — Dr. Rabindranath Tagore and Sir P. C. Ray send telegrams to Gandhiji and Subhash Chandra Bose requesting them to meet and discuss existing problems of Congress. **24** — Congress meeting under presidentship of Subhash Chandra Bose reiterate Congress policy of non-participation in Imperialist War. **27**—Gandhiji and Subhash Chandra Bose meet at Sodepur, near Calcutta and discuss future programmes of Congress. **29** — A.I.C.C. meets at Wellingdon Square, Calcutta. Subhash Chandra Bose resigns presidentship of Indian National Congress. Nehru requests Subhash to withdraw his resignation. **30** — Dr. Rajendra Prasad is elected President of Indian National Congress. **May 1** — New Working Cttee. members of Congress are elected. **3** — Subhash Chandra Bose decides to form Forward Bloc within Congress. **6** — U.N. Dhebar writes to Gandhiji on Rajkot concessions which Darbar Virawala is prepared to grant. **8** — Subhash Chandra Bose explains future programmes of Forward Bloc. **21** — Jawaharlal Nehru deprecates, in speech at Kanpur, formation of Forward Bloc by Subhash Chandra Bose. **24** — Ram Manohar Lohia is arrested at Calcutta. **25** — Gandhiji meets Thakore Sahib of Rajkot. **June 8** — Jayaprakash Narayan, Congress Socialist leader in Patna, criticises aims of 'Forward Bloc'. **18** — Subhash Chandra Bose is accorded great welcome in Peshawar. **26** — Congress premiers meet in Bombay during AICC session to discuss communal disharmony. **July 5** — Gandhiji leaves for his frontier tour accompanied by Mahadev Desai. **10** — Madura Meenakshi temple is thrown open to Harijans. **16** — Brihadeswara temple, Tanjore, is thrown open to Harijans. **17** — Subash Chandra Bose declares in a meeting at Zaveriwada, Ahmedabad, that Swaraj will be achieved in a short time. **18** — Subash Chandra Bose says ordinary Congressman is terrorised into silence by higher ranks of Congress leadership. **21** — Jawaharlal Nehru advises Indians at a Colombo meeting to cultivate goodwill of Ceylonese. **August 11** — AICC disqualifies Subhash Chandra Bose from presidentship of Bengal Provincial Congress Cttee. and debars him from membership of any elective Congress Cttee. for three years. **12** — Subhash Chandra Bose, in a statement, welcomes decision of AICC. **18** — Bengal Govt. releases political prisoners. **20** — Jawaharlal Nehru leaves for China by plane. **30** — Bengal Provincial Congress passes a resolution expressing confidence in Subhash Chandra Bose. **September 4** — Gandhiji and Viceroy discuss World War. **5** — Gandhiji in a statement says he supports Britain and France against Germany in War. **9** — Gandhiji, Subhash Chandra Bose, M. S. Aney, Acharya Narendra Dev and Jayaprakash Narayan attend Cong. Wkg. Cttee. meeting at Wardha by special invitation. **17-18** — Cong. Wkg. Cttee. and All India Muslim League pass resolution on war crisis. **26** — Gandhiji meets Viceroy at Simla. **October 4** — Viceroy meets Sardar Vallabhbhai Patel. **5** — Gandhiji and M. A. Jinnah meet Viceroy. **6** — Viceroy invites Subhash Chandra Bose for talks. **18** — Jinnah-Prasad correspondence regarding league's allegation against Congress Govt. is released. **23** — Parliamentary subcommittee instructs Congress Govt. to resign by October 31. **27** — Congress Ministry in Madras resigns. **31** — U.P. Ministry (Congress) tenders resignation. Viceroy decides to invite Congress and Muslim League for a joint discussion. Subhash Chandra Bose criticises some statements made by Gandhiji and Dr. Rajendra Prasad (Cong. Pres.). **November 1** — Gandhiji, Dr. Rajendra Prasad and M. A. Jinnah hold joint conference with Viceroy in Delhi. **4** — Viceroy meet Gandhiji and Rajendra Prasad in morning and M. A. Jinnah in afternoon. **5** — M. A. Jinnah in a statement says Musalmans of India depend upon their own inherent strength and will fight to last ditch for rights in spite of British or Congress. **19** — Gandhiji lays foundation stone of Kamla Nehru Memorial Hospital at Allahabad. **19-23** — Three-day session of Congress Working Cttee. is held at Anand Bhavan, Allahabad. It passes a resolution on "War-Crisis". **December 1** — Sir Henry Gridney, President, Anglo-Indian Domiciled European Assn. appeals to Community to offer its services to King Emperor unconditionally at Calcutta meeting. **8** — M. A. Jinnah asks Muslims to observe December 21 as "Deliverance Day" from Congress regime. **9** — Gandhiji appeals to Jinnah to desist from observing Day of Deliverance and Thanksgiving in view of communal unity talks. **14** — Jawaharlal Nehru says, in a public meeting in Bombay, that communal problem in country is not communal, in the accepted term of sense, but purely political. **22** — The Congress Working Cttee. at its session at Wardha criticises statement of Secretary of State for India regarding final settlement of Indian affairs. B. G. Kher and Mirza Ismail open All-India Swadeshi exhibition in Madras. **24** — Sikandar Hyat Khan meets Jinnah at Bombay. **26** — Sir Stafford Cripps leaves India for Burma. Sardar Patel denounces Jinnah's appeal to Muslims while addressing a gathering in Bombay. **27** — Jawhaharlal Nehru inaugurates the fifteenth sessions of the All India Educational Conference at Lucknow. **27-29** — Dr. R. Paranjpe delivers presidential address at the 21st Session of National Liberal Federation.

1940

January 13 — C. Rajagopalachari meets Gandhiji at Sevagram. **15** — Subhash Chandra Bose issues instructions to members of the Forward Bloc on how to observe "Independence Day." **16** — Jawaharlal Nehru issues circular regarding the celebration of 'Independence Day.' **26** — Independence Day is celebrated all over India. **30** — Subhash Chandra Bose criticises Congress High Command in a meeting at Calcutta. **February 1** — Dr. Rajendra Prasad, Cong. President, writes to Sarat Chandra Bose regarding defiance of Bengal Cong. Cttee. **11** — Jawaharlal Nehru inaugurates Maharashtra Congress Conference in Bombay and appeals to youth to discard provincialism. **15** — In Congress presidential elections Maulana Abul Kalam Azad (1841 votes) is elected against M. A. Roy (981 votes). **March 7** — Jayaprakash Narayan appeals to leftists to maintain unity in the Congress. **11** — Maharaja Jam Sahib of Jamnagar, Chancellor of Chamber of Princes, makes a statement on the negotiations for revision of Draft Instrument of Accession. **17-19** — Maulana Abul Kalam Azad delivers 53rd presidential address of Indian National Congress at Ramgarh. **22-24** M. A. Jinnah in his presidential address at Lahore Session of All India Muslim League demands for a separate Homeland for Muslims, and passes resolution seeking creation of Pakistan. **April 5** — C. F. Andrews passes away in a nursing home at Calcutta. **May 13** — L. S. Amery is appointed Secretary of State for India. **June 1** — Jawaharlal Nehru, at a Srinagar meeting, deprecates idea of dividing India into Hindu and Muslim States. **10** — Jawaharlal Nehru outlines position of Indian States in free India as visualised by Congress. **17-21** — Working Committee of Congress passes resolution on "War-Crisis". **29** — Viceroy meets Gandhiji at Simla. After talk Gandhiji writes in *Harijan* that he is "both happy and unhappy". **July 1** — Gandhiji appeals to every Briton to accept method of non-violence instead of war with Hitler. **2** — Subhash Chandra Bose is arrested at his Calcutta residence. Sardar Sardul Singh Caveeshar is nominated as president of the All India Forward Bloc. **3-7** — Gandhiji attends the Cong. Working Cttees. meetings in Delhi where resolution demanding complete independence for India is passed. **7** — Congress Working Cttee. deputes Bhulabhai Desai and Asaf Ali to visit Waziristan, and study problems of Wazirs arising out of tribal raids. **21** — At Wkg. Cttee. meeting of Congress at Poona C. Rajagopalachari urges formation of National Govt. at Centre. **August 8** — Viceroy, Lord Linlithgow, makes statement on expansion of Governor's Executive Council and establishment of a

War Advisory Council. **14** — Viceroy writes to M. A. Jinnah regarding establishment of " War Advisory Council". **26** — Congress President issues circular to Provincial Congress Cttees. asking them to hold protest meetings against Viceregal move to establish War Advisory Council. **September 2** — Muslim League Working Cttee. welcomes Viceroy's proposal to establish War Advisory Council. **15** — In a meeting of All India Congress Cttee. at Bombay Maulana Abul Kalam Azad announces Gandhiji's agreement to lead Congress. **18** — Congress Working Cttee. meeting at Bombay passes resolution on suspension of Civil Disobedience. **25** — L. S. Amery, Secretary of State for India, hopes for establishing working arrangement in India with Gandhiji. **October 6** — Mahadev Desai, Secretary to Gandhiji, meets Subhash Chandra Bose. **13** — Working Cttee.'s session at Wardha approves Gandhiji's plan for individual Civil Disobedience by a limited number of satyagrahis chosen by him. **17** — Gandhiji selects Vinoba Bhave as his first satyagrahi for individual satyagraha movement. Vinoba Bhave in a meeting at Panam advises audience not to help British in war efforts. Vinoba is arrested. **25** — Govt. of India issues restrictive orders under Defence of India Rules. **31** — Jawaharlal Nehru is arrested at Chhiski (Allahabad) on his return from Wardha after meeting Gandhiji. **November 8** — *News Chronicle*, London, urges immediate release of Jawaharlal Nehru. **13** — Gandhiji prepares list of 1,500 congressmen for individual civil disobedience. **17** — Sardar Vallabhbhai Patel is arrested and taken to Sabarmati jail. **24** — Govind Vallabh Pant is arrested at Haldwani. **25** — Govind Vallabh Pant is sentenced to one year S. I. Maulana Abul Kalam Azad announces a Hindu-Muslim Unity Board at Karachi. **December 1** — Sarojini Naidu and Bhulabhai Desai are arrested in Bombay. **2** — Dr. Prafulla Chandra Ghose (Wkg. Cttee. Mem.), Kumari Chandra Jaina (Midnapur Dist. Cong. Pres.) are arrested and sentenced to 1 year S.I. under D.I.R. **3** — Bubesu Sambamurti in Madras and K. M. Munshi in Bombay are arrested. **5** — Subhash Chandra Bose is released. **9** — Smt. Vijayalakshmi Pandit, Nityananda Kanungo, Asaf Ali, Dr. & Smt. Subbaroyan are arrested and sentenced each for six months' S.I. **11** — Smt. Sarojini Naidu is released from jail for health reasons. **12**— Subhash Chandra Bose issues statement in connection with disciplinary action taken against Sarat Chandra Bose by Congress executive.

1941

January 3 — Maulana Abul Kalam Azad is arrested at Allahabad on his way to Calcutta from Delhi. **8** — Maulana Abul Kalam Azad is charged under DIR having delivered prejudicial speech at Allahabad and sentenced to 18 months S.I. **27** — Subhash Chandra Bose is missing from home in Calcutta. A warrant of arrest is issued by the Addl. Chief Presidency Magistrate, Calcutta. **31** — M. N. Roy appeals to Gandhiji to persuade followers to behave less violently and more truthfully. **February 3** — Addl. Chief Presidency Magistrate, Calcutta, orders arrest of Subhash Chandra Bose and attachment of his properties. **20** — Gandhiji declines Congress participation in Central government reorganisation until Congress demands are conceded. **28** — Gandhiji performs opening ceremony of Kamala Nehru Memorial Hospital at Allahabad. **March 2** — Subhash Chandra Bose reaches Germany. **13** — Non-parties political conference issues proposals on establishment of " War Advisory Council." **April 22** — L. S. Amery makes statement on proposals of establishing " War Advisory Council." **May 19** — S. Srinivasa Iyengar, *ex*-Pres. of Indian National Congress passes away at Mylapore, Madras. **June 4** — Pt. Madan Mohan Malaviya addresses the Conference of Hindu leaders at Banares regarding communal situation in India. **July 18** — Gandhiji discusses with Christian leaders minorities question of India. **August 7** — Rabindranath Tagore passes away in his old *Jorasanko* house. **12** — Pt. Madan Mohan Malaviya, in a statement from Banaras, recommends holding of public meetings on August 17 to protest against communal award and separate communal electorates. **September 16** — Bhulabhai Desai is released from prison for reasons of health. **19** — Dr. Satyapal resigns seat in Cental Legislature. **26** — Communal riots in Dacca and Bombay. **November 8** — Smt. Vijayalakshmi Pandit inaugurates Patna Dist. Political Conference at Patna and appeals to follow programmes outlined by Gandhiji. **14** — Gandhiji appeals to Govt. on Jayaprakash Narayan's fast in Deoli. **December** — Secret station " Azad Hind Radio " is opened in Germany. **3** — Jawaharlal Nehru and Maulana Azad are released from jail. **5** — Jawaharlal Nehru says, in statement from Lucknow, that " Call of India continues to resound our ears and infuses new blood in our veins." **30** — Congress Working Cttee., at session in Bardoli, passes resolution to relieve Gandhiji from leadership of Congress.

1942

January 3 — Jawaharlal Nehru while addressing meeting in Bombay says, "We should have no sympathy with Hitler." Rajendra Prasad, Sardar Vallabhbhai Patel, Acharya J. B. Kripalani and Dr. Profulla Chandra Ghosh also issue statements regarding Congress attitude towards war. **February 9** — Marshal Chiang Kai-shek and Madam Chiang Kai-shek arrive in Delhi. **11** — Maulana Azad and Jawaharlal Nehru meet Marshal Chiang Kai-shek and Madam Chiang Kai-shek in Delhi. Seth Jamna Lal Bajaj, treasurer and member of the Congress Working Cttee. passes away at Wardha. **17** — Sir H. P. Mody, N. R. Sarkar and M. S. Aney resign from the Viceroy's Council. **18** — Marshal Chiang Kai-shek meets Gandhiji. **March 22** — Maulana Azad addressing concluding session of Jamiat-ul-ulema Hind at Lahore advises Muslims not to stand in way of freedom of country by presenting different schemes. **23** — Sir Stafford Cripps at press conference in New Delhi says he is great admirer of India and that he wishes to settle all political problems. **25** — Sir Stafford Cripps meets Maulana Azad in New Delhi. **27** — Gandhiji meets Sir Stafford Cripps in New Delhi. **30** — Sir Stafford Cripps, in broadcast, appeals to people of India to get together and form their own constitution. **April 2** — All India Muslim League passes resolution on Cripps' proposal. **6** — Jawaharlal Nehru reports to Congress Working Cttee. about his talk with Col. Johnson, personal envoy of President Roosevelt. **7** — Sir Stafford Cripps puts forward first formula on Defence in his letter to Maulana Azad. Subhash Chandra Bose claims Cripps Mission is a failure. **29** to **May 2** — AICC rejects C. Rajagopalachari's resolution on self-determination of Muslims. **May 3** — Sir Stafford Cripps in broadcasts from London says India will have complete freedom soon after war. **June 5** — Jawaharlal Nehru appeals for funds to help *National Herald*, Lucknow. **July 5** — Mahatma Gandhi speaks to Maulana Azad about " Quit India Movement " at Working Cttee. meeting at Wardha. **14** — Congress Working Cttee. releases 700-word resolution on political situation which is described as " Quit India " resolution. **August 8** — Jawaharlal Nehru speaks on Cripps' Mission and Quit India movement at AICC meeting in Bombay. **9** — Gandhiji, Maulana Azad, Jawaharlal Nehru, Vallabhbhai Patel and other prominent congressmen including members of Working Cttee. and President and Secretary of Provincial Congress Cttee. are arrested in Bombay and taken to Poona by Special train. **10** — In a police lathi charge on students' procession about 50 students of Banaras Hindu University get injured. Subhash

Chandra Bose republishes his book *The Indian Struggle* in *Malaya*. **12** — At Assi the police open fire on students' procession killing one and injuring many. S. Satyamurthy is arrested at Arkonam. **15** — Gandhiji writes to Chiang Kai-shek. Mahadev Desai passes away in Aga Khan Palace prison. **16-20** — Working Cttee. of All India Muslim League passes resolution on "Quit India" resolution of Congress. **17** — V. V. Giri, Madras Labour Minister and President of All India Trade Union Congress, is arrested under Defence of India Act. **21** — Sir C. P. Ramaswami Aiyar resigns from Viceroy's Council. **September 7** — Smt. Kamaladevi Chattopadhyaya is arrested at Bangalore under DIR. **15** — Smt. Rameshwari Nehru, Vice-Pres. of the Harijan Sewak Sangh, and three other lady congress workers are arrested at Lahore under DIR. **29** — Sardar J. J. Singh of India League of America endorses Gandhiji's proposal asking Pres. Roosevelt to intervene in British India dispute. **October 18** — L. S. Amery, Secretary of State for India, reiterates Britain's pledge of freedom to India. **November 12** — C. Rajagopalachari meets Viceroy and gives interview to Indian and Foreign correspondents. **16** — Dr. Shayama Prasad Mookerjee, Finance Minister of Bengal, resigns.

1943

February — Subhash Chandra Bose arrives in Tokyo. **10** — Gandhiji decides on 21-day fast. **19** — Doctors attending on Gandhiji say his condition causes anxiety. Numerous appeals sent to Churchill, Amery and Viceroy for Gandhiji's release. **20** — All Party Leaders' Conference meets at Delhi and passes resolution urging unconditional release of Gandhiji. **26** — Gandhiji meets C. Rajagopalachari. **March 3** — Gandhiji breaks fast at 9-34 A.M. **April 21** — Commonwealth Party in England urges resumption of negotiations and release of Gandhiji unconditionally. **19** — In a broadcast Subhash Chandra Bose asks Indians to trust him. **July 4** — Subhash Chandra Bose accepts allegiance to Indian National Army. **16** — Bengal Legislative Council passes resolution urging release of Gandhiji and members of Congress Working Cttee. **August 8** — Subhash Chandra Bose assumes personal command of the I.N.A. **October 21** — Subhash Chandra Bose inaugurates Provincial Government of Free India in Cathay Cinema at Singapore. **23** — Provisional Govt. of Free India declares War on Britain and U.S.A. **November 25** — Smt. Vijayalakshmi Pandit, President, All India Women's Conference, speaks about devastating flood and food crisis in Midnapur Dist. **December 29** — Japanese Admiral at Port Blair receives Subhash Chandra Bose in Andaman Islands.

1944

February 17 — Viceroy, Lord Wavell, addresses Central Legislature on problem of Indian Unity. **20** — Bombay Govt., in its communique, says, "Gandhiji's condition has been deteriorating and is very grave". **22** — Kasturba Gandhi passes away in Aga Khan Palace prison. **March 8** — Under leadership of Pt. Madan Mohan Malaviya about forty prominent leaders decide to raise a fund in memory of Kasturba and present it to Gandhiji on his 75th birthday. **May 5** — Leaders appeal to Viceroy to release Gandhiji. **6** — A New Delhi press communique announces release of Gandhiji unconditionally on medical grounds. Gandhiji is released at 8 A.M. **19** — Gandhiji visits Bombay. **29** — Subhash Chandra Bose collects about Rs. 5 million in cash and ornaments at public meeting in Singapore. **June 28** — Gandhiji addresses Maharashtra Congressmen in Poona. **July 1** — Viceroy refuses interview to Gandhiji. **10** — C. Rajagopalachari publishes his formula to end Congress-League deadlock. **28** — Gandhiji deplores underground activities and sabotage works. **30** — Gandhiji supports C. Rajagopalachari's formula (C. R. Formula). **August 14** — Pt. Madan Mohan Malaviya says that he is entirely opposed to the idea of Pakistan. **September 9, 11, 15, 19, 24 and 27** — Gandhiji-Jinnah meetings and discussions take place in Bombay. **October 23** — Subhash Chandra Bose leaves Singapore for Tokyo to attend Greater East Asia Conference. **November 26** — Gandhiji signs Kasturba Memorial Trust Deed.

1945

March 6 — Bertrand Russell advocates independence for India at meeting in Cambridge University. **May 21** — Subhash Chandra Bose appeals to Moscow to help India's cause. **30** — Nawabzada Liaqat Ali Khan speaks on Rajagopalachari's formula on Pakistan. **June 15** — Maulana Azad, Jawaharlal Nehru and others are released. **20** — Jawaharlal Nehru and Viceroy meet at Simla for talks. **21** — Congress Working Cttee. meets at Bombay to discuss Lord Wavell's (Viceroy's) proposals (Wavell Plan). **23** — Jawaharlal Nehru says that Wavell Plan is in nature of an interim arrangement to organise a change. **30** — Gandhiji is surprised at M. A. Jinnah's request to accept Pakistan first. **July 9** — Viceroy writes to M. A. Jinnah. **11** — Viceroy meets Gandhiji. **12** — Jawaharlal Nehru explains Congress attitude on Wavell Plan. **September 12-18** — Congress Working Cttee. passes resolution on United India and self-determination. **19** — Viceroy, Lord Wavell, speaks on general elections and plans for summoning a constitution making body.

1946

January 6 — Sardar Vallabhbhai Patel in a meeting, referring to INA trial, at Bombay, says that any subject country has right to organise its own army and overthrow ruling power. **29** — Jawaharlal Nehru in meeting at Allahabad condemns attack on Communist Headquarters at Bombay. **31** — Members of British parliamentary delegation meet Jawaharlal Nehru at Allahabad. **February 10** — Gandhiji's *Harijan* Weekly resumes publication after a break of 42 months. **23** — Maulana Azad, in a telegram to British Govt., asks British people to abandon imperialism in India. **March 4** — Jawaharlal Nehru issues statement at Allahabad in connection with strike of Army signalmen and others at Jabalpur. **15** — Earl Attlee, in a statement to House of Commons, admits that situation in India has completely changed and requires new approach to solve it. **April 4** — British Cabinet Mission meets M. A. Jinnah and Sir Gulam Hussain Hidayatulla, Premier of Sind. **5** — British Cabinet Mission meets Sikh leaders. **10** — Sardar Vallabhbhai Patel says Congress cannot accept Muslim League's proposal of creating new State of Pakistan. **14** — All India Hindu Mahasabha submits memorandum to British Cabinet Mission. **24** — Herbert Hoover, a former U.S. President, meets Gandhiji and Jawaharlal Nehru. **28** — Congress Working Cttee. reviews an invitation extended by the British Cabinet Mission to its President, Maulana Azad, for joint meeting in New Delhi with M. A. Jinnah. **May 7** — Gandhiji and M. A. Jinnah meet Viceroy and Sir Stafford Cripps in Simla. **9** — Jawaharlal Nehru is elected president of the Indian National Congress for the fourth time. Jawaharlal Nehru meets M. A. Jinnah at Simla. **12** — Three-member British Cabinet Mission makes statement on position of Princely States in Independent India and their relations with British Crown. **24** — Congress Working Cttee. passes resolution on British Cabinet Mission's proposals stating it is unable to reach final opinion in absence of full clarification of proposed Provisional Govt. **26** — Jawaharlal Nehru meets Viceroy in New Delhi. **June 6** — Council of All India Muslim League passes resolution on formation of an Interim Govt. **16** — All India Cttee. of Hindu Mahasabha passes resolution on Cabinet Mission Plan. Cabinet Mission issues statement on formation of Interim Govt. **19** — Congress decides to join Interim Govt. under certain conditions. **20** — Jawaharlal Nehru is arrested at Domel for defying ban on his entry to Kashmir. **21** — Jawaharlal Nehru is released. **27** — M. A. Jinnah makes statement on acceptance of Cabinet Mission Plan by the Congress. **29** — Members of caretaker Govt. are announced. Cabinet Mission leaves for England. **July 3** — Viceroy accepts resignations of all members of his Executive Council on eve of formation of new caretaker Govt. **6** — Jawaharlal Nehru takes charge of Congress presidentship from Maulana Azad at meeting of AICC in Bombay. **8** — Congress decides to organise a Congress Volunteer Corps under leadership of Major Gen. Shah Nawaz Khan of I.N.A. **22** — Viceroy writes to M. A. Jinnah regarding formation of Interim Govt. **27** — Muslim League Council at its meeting in Bombay passes resolution rejecting Cabinet Mission Plan and reiterates demand for Pakistan. **31** — M. A. Jinnah replies to Viceroy's letter. **August 14** — Jawaharlal Nehru invites M. A. Jinnah to join Interim Govt. **18** — Jawaharlal Nehru submits names to Viceroy for inclusion in Interim Govt. **24** — Viceroy announces formation of Interim Govt. at Centre and appeals to Muslim League to join Interim Govt. **September 1** — Viceroy announces portfolios of new Interim Govt. **2** — Interim Govt. assumes office. **7** — Jawaharlal Nehru, in his first broadcast as Vice-President of Interim Govt. explains free India's role in world affairs. Gandhiji, in his prayer speech, appeals to M. A. Jinnah to give up violence and allow Hindus and Muslims to come closer. **14** — Dr. S. Radhakrishnan unveils Gandhiji's statue at Karachi. **16** — Wkg. Cttee. of Forward Bloc meets at Delhi and asserts that Subhash Chandra Bose is alive and will reappear at opportune time. **20** — Achyut Patwardhan elected Gen. Secretary of Cong. Socialist Party in place of Jayaprakash Narayan. **22** — AICC meets at Delhi. Jawaharlal Nehru resigns Congress presidentship. **25** — Viceroy meets Jawaharlal Nehru and Gandhiji. **October 9** — Dr. Ram Monohar Lohia released from prison. An order banning his entry into Goa is served on him. **25** — Smt. Vijayalakshmi Pandit defines India's policy in U.N. General Assembly which opposes racialism and exploitation. Names of Muslim League members of Interim Govt. are announced. **November 12** — Pt. Madan Mohan Malaviya, 85, passes away in Banaras. **23–24** — 54th plenary session of Indian National Congress meets at Pyarelal Nagar, Meerut under presidentship of Acharya J. B. Kripalani. **December 1** — Viceroy Lord Wavell accompanied by Jawaharlal Nehru, M. A. Jinnah, Liaqat Ali Khan and Sardar Baldev Singh leaves for London by air to attend London Conference. **8** — Jawaharlal Nehru and Sardar Baldev Singh return to Delhi.

1947

January 6 — Sarat Chandra Bose resigns from Congress. **7** — Gandhiji appeals to Muslims to be tolerant. **15** — Maulana Azad joins Interim Govt. as Education Member. **29** — Chamber of Princes accept recommendations of British cabinet on position of princely states in Independent India and their relations with British Crown. **February 10** — Jawaharlal Nehru in statement says Govt. is convinced Subhash Chandra Bose is dead as a result of injuries sustained in aircrash. **20** — Clement Attlee, British Prime Minister, announces in House of Commons target date for transfer of power. **24** — M. A. Jinnah insists on formation of Pakistan. Gandhiji calls for Hindu-Muslim Unity. **March 7** — Jayaprakash Narayan resigns from Congress Working Cttee. **12** — Gandhiji starts tour of riot affected areas of Bihar. **15-16** — Jawaharlal Nehru accompanied by Sardar Swaran Singh and Dr. Gopichand Bhargava visits riot affected areas of Rawalpindi, and make an aerial tour of Multan and Amritsar. **31** — Gandhiji arrives in Delhi for talks with Viceroy, Lord Mountbatten. **April 2** — Jawaharlal Nehru elected president in Provincial General Council of Asian Relations Conference. Gandhiji while addressing the Conference says that East must conquer West by message of truth and love. **5** — Gandhiji makes appeal to Hindus not to harbour ill-will against Muslim fanatics. **14** — While inaugurating 7th Session of All India Manufacturers' Organisation Jawaharlal Nehru stresses need for rapid industrialisation of India. **15** — Gandhiji and M. A. Jinnah issue joint statement denouncing violence. **17** — Acharya J. B. Kripalani, Cong. President, meets Lord Mountbatten. **28** — Dr. Rajendra Prasad while addressing Constituent Assembly, indicates House should be prepared for division of India including some provinces. **30** — Constituent Assembly votes for abolition of titles by Indian Union. **May 1–4** — Under presidentship of Acharya J. B. Kripalani Congress Working Cttee. meeting is held at Delhi. **8** — Jayaprakash Narayan arrested in Hyderabad and externed from State. **24** — Jawaharlal Nehru says M. A. Jinnah's demand for a corridor through India is unrealistic. **27** — Acharya J. B. Kripalani says in case of a division of India it should not be carried out by British. **June 3** — His Majesty's Govt. issues a statement on its final decision regarding transfer of power. Clement Attlee speaks in House of Commons outlining partition of India and date of transfer of power. **6** — Gandhiji meets Viceroy and discusses with him question of partition of Punjab and Bengal. **15** — AICC passes resolution accepting proposals for partition and transfer of power. **July 10** — Clement Attlee makes a speech in House of Commons on Indian Independence Bill. **18** — British Parliament passes an Act to set up dominions of India and Pakistan. **27** — Gandhiji requests Princes to join Indian Union. **August 8** — Nizam of Hyderabad informs Crown representative of State that he will watch relations between India and Pakistan before entering into relation with either Dominion. **12** — U.N. Asst. Secretary General for Legal Affairs brings out a memorandum on effect of Indian Independence Act, 1947. **12** — Viceroy informs Nizam that Govt. of India will not worry him. Four Jt. Councils were set up to consider matters relating to partitioning of India. A tribunal is also set up to make awards in respect of partition disputes **12-13** — Sir Cyril Radcliffe, Chairman, Boundary Commission, publishes awards on Pakistan boundaries in Bengal, Assam and Punjab. **14** — Constituent Assembly passes resolutions on assumption of power and endorses appointment of Lord Mountbatten as Governor-General of Dominion of India ; Lord Mountbatten inaugurates Dominion of Pakistan. **15** — Indian Dominion born at 12 midnight. Jawaharlal Nehru broadcasts as first Prime Minister of India from All India Radio, Delhi. Lord Mountbatten as Governor-General addresses Constituent Assembly. **31** — Jawaharlal Nehru visits riot affected areas in Punjab with Liaqat Ali Khan and Sardar Patel. **September 26** — Gandhiji appeals to safeguard rights of minorities. **27-October 1** — Congress Working Cttee. meets at Delhi. Acharya J. B. Kripalani presides. **18** — Kashmir Govt. complains to Pakistan Govt. of hostile acts. **26** — Maharaja of Kashmir requests Indian Govt.'s help against Pakistan raiders and offers accession of State to India. **27** — Govt. of India accepts offer of accession and sends troops to Kashmir. **30** — Pakistan Govt. blames Kashmir Govt. for Pathan attacks and refuses to recognise Kashmir's accession to India. **November 8** — Diwan of Junagadh seeks India's help to maintain law and order **9** — Govt. of India intimates Pakistan about request made by Diwan of Junagadh and takes over administration

14 — Pakistan declares India as a foreign territory for export and import purposes. **29** — Indian Govt. accepts standstill agreement of Nizam of Hyderabad. **December 12–30** — Letters between Prime Ministers of India and Pakistan are exchanged on Kashmir question. Various types of merger agreements are executed by States. **20** — Govt. of India declares Pakistan as a foreign territory for export of raw jute products.

1948

January 1 — Indian Govt. urges U.N. Security Council to stop Pakistan from assisting raiders in Kashmir. **15** — Pakistan Govt. submits documents on Kashmir to Security Council; N. G. Ayyangar, Permanent representative of India to Security Council, suggests a plebiscite in Kashmir under international auspices. **20** — A bomb explodes near Gandhiji during his prayer meeting in Birla House, New Delhi. U.N. Security Council appoints three-man Commission to settle Kashmir question. **30** — Gandhiji shot dead by Nathuram Vinayak Godse, a member of Rastriya Swayam Sevak Sangh, at 5·10 P.M. just before his evening prayer meeting in Birla House, New Delhi. **February 4** — Indian Govt. bans Rashtriya Swayam Sevak Sangh after assassination of Gandhiji. **8** — Indian Govt. declares Muslim National Guard unlawful. **12** — Immersion of Gandhiji's ashes in holy confluence at Allahabad is witnessed by million people. **14–15** — Hindu Mahasabha passes resolution indicating its withdrawal from political works. **March 5** — Maharaja of Kashmir announces establishment of popular interim Govt. in State. **25** — AICC office is moved from Swaraj Bhavan, Allahabad to 7, Jantar Mantar Rd., New Delhi. **April 12** — Jawaharlal Nehru lays foundation stone of Hirakud Dam. Jawaharlal Nehru lays foundation stone of New capital of Orissa at Bhubaneshwar. **15–18** — Agreement with Pakistan on minority communities signed. **21** — U.N. Security Council in a resolution asks India and Pakistan to withdraw their forces from Kashmir. **May 4** — Interim agreement on Canal waters signed with Pakistan. **26** — An agreement with Pakistan on supply of essential commodities signed. **27** — Mahatma Gandhi murder case hearing starts in Red Fort, Delhi. **June 8** — French Govt. announces future of French settlements in India. **9** — Talks on accession of Hyderabad break down. **20** — Lord Mountbatten leaves India. **21** — C. Rajagopalachari assumes charge as Governor General of India. **July 1** — Ordinance bans transfer of securities held by Nizam of Hyderabad. **2** — Govt. of India bans export of Gold or currency from Hyderabad. **9** — Agreement on sterling balances between India and England signed. **August 20** — Jawaharlal Nehru addresses first meeting of Atomic Energy Commission. **September 9** — M. A. Jinnah passes away. **11** — Nizam rejects India Govt.'s terms. **12** — Indian troops enter Hyderabad territory. **17** — Nizam orders cease fire; Hyderabad army lays down arms. **18** — Hyderabad comes under military administration with Maj. Gen. Choudhury as Military Governor. **20** — Nizam orders withdrawal of case from U.N. **October 5** — Jawaharlal Nehru leaves for London to attend Commonwealth Prime Ministers' Conference. **24** — Jawaharlal Nehru's talk with Earl Attlee and Liaqat Ali Khan on Kashmir breaks down. **November 3** — Jawaharlal Nehru addresses special session of U.N. General Assembly in Paris. **4** — Dr. B. R. Ambedkar, Chairman, Drafting Cttee., presents Draft Constitution to Constituent Assembly. **8** — Nathuram Godse confesses to murder of Mahatma Gandhi but denies any conspiracy. **22** — Cyclone in Bombay paralyses city. **24** — Dr. Shyama Prasad Mukherjee resigns membership of Mahasabha executive. **29** — Constituent Assembly adopts article on equality and abolition of untouchability. **December 3** — R. R. Diwakar is appointed Minister of Information. **4** — General Cariappa appointed Commander-in-Chief of Indian Forces. **17** — Kashmir Plebiscite Commission Panel arrives. **18–19** — 55th Congress Session opens in Jaipur under presidentship of Dr. Pattabhi Sitaramayya. **23** — Govt. of India issues a communique on stoppage of Dutch flight across India.

1949

January 1 — Govt. of India orders ceasefire in Kashmir. **20** — Sir Tej Bahadur Sapru passes away. **February 10** — Nathuram Godse and accomplice are sentenced to death for murder of Gandhiji. **April 15** — United Nations Commission for India and Pakistan sends proposals regarding cease-fire line and withdrawal of troops by India and Pakistan. **May 11** — Cttee. on Minorities submits report. **21–22** — Congress Wkg. Cttee. meets at Dehradun. **June 24** — Indo-Pakistani trade agreement signed. **26** — Talks between India and Pakistan on evacuee property end in deadlock at Karachi. **July 10** — Indo-French communique on Chandernagore referendum issued. **12** — Govt. of India withdraws ban on Rashtriya Swayam Sevak Sangh. **27** — Military representatives of India and Pakistan sign agreement demarcating cease-fire line. **August 26** — UNCIP suggests Kashmir issue be solved through arbitration. **September 9** — Indian Govt. disagrees to principle of arbitration for Kashmir. **October 7** — Jawaharlal Nehru on good-will visit to U.S.A. **November 7** — Governor General rejects mercy petitions of Godse and Apte, sentenced to death in Mahatma Gandhi murder case. **15** — Godse and Apte are executed at Ambala. **23** — Nizam proclaims extension of Indian Constitution to Hyderabad. **24–25** — Raj Pramukhs of Travancore-Cochin and Mysore proclaim extension of Indian Constitution to their States. **25** — Maharaja of Kashmir extends Indian Constitution as applicable to Jammu and Kashmir. **26** — Third reading of Constitution Bill completed. **30** — Govt. of India issues communique on India's decision to establish diplomatic relations with new Govt. of China.

1950

January 4 — Friendship treaty between India and Afghanistan signed. **14** — Nehru attends Commonwealth Foreign Ministers' Conference in Colombo. **18** — Jawaharlal Nehru suggests No-war Pact between India and Pakistan. **19** — Rail traffic between India and Pakistan is suspended. Nehru lays foundation stone of National Stadium, New Delhi. **24** — Dr. Rajendra Prasad elected President of Indian Republic. **26** — India officially proclaimed as Sovereign Democratic Republic. **31** — Dr. Rajendra Prasad, President of India, delivers an address to Parliament. **February 7** — Indian "White Paper" on disruption of trade and rail traffic with Pakistan issued. **20** — Sarat Chandra Bose passes away. **March 17** — Jawaharlal Nehru declares in Parliament India is gravely concerned with plight of Hindus in East Pakistan. **April 2** — Jawaharlal Nehru and Liaqat Ali Khan (Pakistan Prime Minister) meet at Delhi. **8** — Indo-Pakistan Pact ensuring protection to minorities signed. **14** — Sri Ramana Maharshi passes away. **15** — Dr. S. P. Mookherjee (Min. for Industries) and K. C. Neogy (Min. for Commerce) resign. **25–26** — Chief Ministers of States and P.C.C. Presidents meet at a Conference in New Delhi to formulate economic programme and devise methods to implement it. **26** — Jawaharlal Nehru visits Pakistan. **May 2** — Chandernagore, a French Settlement in India, taken over by Govt. of India. **27** — Sir Owen Dixon, U.N. Mediator in Kashmir Dispute arrives in Delhi. 'Kirti Mandir' a memorial to Mahatma Gandhi inaugurated by Sardar Patel at Porbandar. **July 1** — India recognises Communist China. **2** — Socialist leader Yusuf Meherally passes away. **August 5** — Chief Minister of Assam, Gopinath Bardoloi, expires. **15** — New currency coins introduced in India. **16** — Earthquake shocks in Assam and eastern parts of India : worst in last 50 yrs. **21** — Dixon mission in Kashmir reports failure. **September 20-21** — 56th Congress session, opens at Nasik. Purushottamdas Tandon presides. **October 3** — Jawaharlal Nehru inaugurates eleventh Conference of Institute of Pacific Relations at Lucknow. **November 1** — President Dr. Rajendra Prasad, inaugurates Chittaranjan Locomotive Works. **December 5** — Sri Aurobindo Ghosh expires. India signs new treaty with Sikkim on India's defence responsibility extending to Tibetan borders. Cong. Wkg. Cttee. meets at Sardar Vallabhbhai Patel's residence under presidentship of Purushottamdas Tandon. **15** — Sardar Vallabhbhai Patel passes away. **26** — Central Cabinet reorganised ; C. Rajagopalachari becomes Minister for Home Affairs.

1951

January 2 — Jawaharlal Nehru inaugurates Indian Science Conference at Bangalore. **February 9** — First Census enumeration in Independent India starts. **19** — Indo-Pakistan trade talks begin in Karachi. **25** — Indo-Pakistan trade agreement is signed. **27** — India accepts Pakistan Rupee at par value. **28** — Debate on Kashmir in Security Council begins. **March 1** — India rejects joint U.S. — U.K. plan for Kashmir settlement. **17** — Bakshi Ghulam Mohammed opposes arbitration on Kashmir. **28** — Congress of Cultural Freedom meets at Bombay, under Jayaprakash Narayan. **April 13** — Govt. of India withdraws titles and privileges of Maharaja of Baroda. **21** — Parliament passes Jallianwala Memorial Bill. **24** — Sri Aurobindo Memorial convention meets at Pondicherry. **May 17** — Acharya J. B. Kripalani resigns from Congress. **20** — T. Prakasam resigns from Congress. **27** — Dr. Rajendra Prasad presents Presidents' Colours to Indian Navy in Bombay. **June 11** — Jawaharlal Nehru charges U.S. and U.K. with aiding Pakistan in Kashmir issue. **16** — Dr. Gopichand Bhargawa resigns Chief Ministership of Punjab ; Acharya J. B. Kripalani presides over new Praja Socialist Party convention at Patna. **21** — India pleads for Communist China's membership in UNESCO. **26** — Delhi-Moscow direct phone link inaugurated. **July 3** — India protests to U.N. Security Council against Pakistan raids in Kashmir. **8** — Dr. Graham, U.N. representative for Kashmir, visits Srinagar. **18** — Rafi Ahmed Kidwai and Ajit Prasad Jain resign from Central Cabinet. **24** — Jawaharlal Nehru demands "No-War" assurance from Pakistan. **26** — Liaqat Ali Khan invites Jawaharlal Nehru to Karachi for talks. **August 18** — Jayaprakash Narayan and Railway Minister discuss Railwaymen's demands. **31** — C. Rajagopalachari introduces Press Laws Bill in Parliament. **September 7** — Nehru meets Dr. Frank Graham, U.N. Mediator on Kashmir, just before he leaves India. **9** — Nehru takes up Congress Presidentship from Purushottamdas Tandon at AICC meeting in Delhi. **27** — Dr. Ambedkar, Minister for Law, resigns. Parliament passes Aligarh Muslim and Banaras Hindu University Bills. **October 7** — Press Bill becomes an Act. **18-19** — 57th Session of Indian National Congress, presided over by Jawaharlal Nehru, meets at Satyavati Nagar, New Delhi. **28** — China-Cultural mission arrives in Calcutta. **November 1** — H.E. Chester Bowles, U.S. Ambassador, presents credentials to the President of India. **7** — M. Patanjali Sastri appointed Chief Justice of India. **20** — Interim Constitution comes into force in Kashmir. **December 5** — Dr. Rabindranath Tagore passes away in Calcutta. **14** — Indo-Turkish treaty of friendship is signed at Ankara. **19** — Dr. Graham submits report on Kashmir to U.N.

1952

February 23 — Parliament passes Employees Provident Fund Bill. **March 14** — Jawaharlal Nehru addresses Conference of Governors and Rajpramukhs in Delhi. **21-22** — Congress Working Cttee. meets at Lake Area, Calcutta, under presidentship of Jawaharlal Nehru. **April 5** — Dr. S. Radhakrishnan meets Marshal Stalin. **14** — Jawaharlal Nehru inaugurates three integrated Railway Zones — Northern, North-East and Eastern at a junction in Delhi. **24** — Dr. S. Radhakrishnan elected Vice-Pres. of India. **May 12** — First Session of India's new Parliament meets in New Delhi. **June 15** — Pakistan rejects India's offer on evacuee property. **July 16** — Sheikh Abdullah meets Jawaharlal Nehru on Kashmir issue. **August 1** — Jawaharlal Nehru inaugurates Nationalised Airways in Delhi. **5** — Indo-Pakistan trade pact is signed. **October 29** — Pakistan decides to stop import of Indian films. **November 1** — Jawaharlal Nehru inaugurates Rural University in Sevagram. **3** — U.S. Aid agreement signed. **26** — China rejects Indian Plan for Korean issue. **December 21** — Dr. Saifuddin Kitchlew awarded Stalin's Peace Prize for 1952.

1953

January 2 — Jawaharlal Nehru inaugurates 40th session of Indian Science Congress at Lucknow. **15** — AICC meets in Hyderabad under presidentship of Jawaharlal Nehru. **17-18** — Jawaharlal Nehru presides over the 58th Plenary Session of Congress at Naval Nagar, Hyderabad. **February 24** — Master Tara Singh and 9 Akali leaders arrested at Amritsar. **March 7** — Jawaharlal Nehru inaugurates Railway's Centenary Exhibition. **18** — Nehru inaugurates Backward Classes Commission, New Delhi. **29** — Jawaharlal Nehru and U Nu (Prime Minister, Burma) meet at Imphal for joint tour of Indo-Burma border areas. **April 2** — Asaf Ali passes away at Berne, Switzerland. **7** — Asaf Ali's body is laid to rest in Delhi. **May 29** — Sherpa Tensing and Sir Edmund Hillary climb Everest. **August 9** — Sheikh Abdullah dismissed and arrested. Bakshi Gulam Mohammed becomes Prime Minister of Kashmir. **22** — Hindu Mahasabha opposes Plebiscite in Kashmir. **27** — Parliament passes Andhra Bill unanimously. **September 15** — Smt. Vijayalakshmi Pandit elected as president of the 8th session of the U.N. General Assembly. **19** — Vinoba Bhave and party are assaulted by Pandas (priests) at gate of Deoghar temple, Bihar. **October 1** — New Andhra State inaugurated by Jawaharlal Nehru at Kurnool. **3** — Dr. A. Krishnaswami Iyer passes away. **7** — Dr. Rajendra Prasad inaugurates, Chandigarh, Capital of Punjab State. **29** — India's first Radar Training Centre opened in Bombay. **November 1** — Dr. Rajendra Prasad inaugurates Telegraph Centenary Exhibition. **December 2** — Indo-U.S.S.R. Trade pact signed in New Delhi. **21** — A trade pact between Germany and India signed to establish one steel plant in India.

1954

January 4 — Meher Chand Mahajan takes over as Chief Justice of India. **18** — An Indo-Ceylon pact on future of people of Indian origin in Ceylon signed at New Delhi. **25** — M. N. Roy passes away at Dehra Dun. **February 3** — About 500 pilgrims die in Kumbh Mela stampede at Allahabad. **March 1** — Prime Minister rejects President Eisenhower's offer of Military Aid to India. **26** — C. Rajagopalachari resigns leadership of Congress Party and Chief Ministership of Madras. **29** — Prime Minister Nehru inaugurates Institute of Public Administration in N. Delhi. **30** — K. Kamaraj Nadar elected leader of Madras Legislature Congress Party. **April 1** — Twenty-first anniversary of Indian Air Force celebrated. — Air Marshal Mukerjee takes over as first Indian Chief of Air Staff. **10** —

Jawaharlal Nehru opens Central Salt Research Institute at Bhavnagar. **18** — Punjab Assembly speaker Dr. Satyapal passes away at Simla. **June 1** — Andhra Assembly passes Sri Venkateswara University Bill. **12** — President gives assent to Bihar Land Reform (Amendment) Act 1953. **25** — Chou En Lai, Chinese Prime Minister arrives in New Delhi for talks with Jawaharlal Nehru. **28** — A communique issued by Prime Ministers of India and China outlining 5 principles (Panch Shil) for regulation of relations between nations. **July 1** — Office of Indian High Commission in South Africa closed. **16** — Decision of French Govt. to transfer *de facto* power to people of Mahe is implemented. **25** — India accepts chairmanship of three Supervisory Commissions for Viet-Nam, Laos and Combodia. **August 15** — Goan volunteers enter Portuguese possessions of Goa to offer *satyagraha*. **20** — Govt. of India accepts Bank Dispute Award with modifications. **30** — V. V. Giri, Union Min. of Labour, resigns from Central Cabinet. **September 10** — Khandubhai K. Desai sworn in as Minister for Labour in Union Cabinet. **October 1** — Jawaharlal Nehru inaugurates Stamps Centenary Exhibition at New Delhi. **14** — A two-year trade agreement signed between India and China. **23** — National Industrial Devpt. Corpn. holds first meeting in New Delhi. **24** — Rafi Ahmed Kidwai, Union Minister of Food expires. **November 1** — A *de facto* merger of French settlements of Pondicherry, Karaikal, Mahe and Yanam with Indian Union takes place. **4** — Jawaharlal Nehru lays foundation stone for Himalayan Mountaineering Institute at Darjeeling. **6** — Ministry led by T. Prakasam in Andhra resigns. **9** — Ministry led by Jai Narain Vyas of Rajasthan resigns. **27** — Acharya J. B. Kripalani resigns office of Chairman of Praja Socialist Party. Acharya Narendra Dev takes his place. **December 5** — Girja Shankar Bajpai dies at Bombay. **10** — U. N. Dhebar elected President of Ind. Nat. Congress. **15** — J. P. Srivastava dies in Lucknow. **23** — B. K. Mukherjea takes over as Chief Justice of India. **26** — Dr. B. C. Roy, Chief Min. of W. Bengal, opens Hindustan Cable Ltd. at Rupnarainpur.

1955

January 1 — Dr. S. S. Bhatnagar, Chairman of University Grants Commission dies in New Delhi. **6** — All India Forward Bloc decides to merge with Congress. **11** — India's first newsprint factory at Nepanagar (M.P.) goes into production. **21** — 60th session of Indian National Congress, under presidentship of U. N. Dhebar meets at Avadi, near Madras. **March 10** — Working Journalists (Industrial Disputes) Bill is passed by Lok Sabha. **22** — A direct radio telephone link between India and Burma is established. **April 7** — Rajya Sabha passes Hindu Guardianship Bill. **11** — An Air-India Constellation, Kashmir Princess, carrying delegates to Bandung Conference crashes into sea north of Sarawak. **12** — Col. Nasser, Prime Min. of Egypt, arrives in New Delhi on way to Bandung Conference; Lok Sabha passes Constitution (Fourth Amendment) Bill. **28** — Lok Sabha passes Untouchability (Offences) Bill. **May 5** — Lok Sabha passes Hindu Marriage Bill. **9** — Govt. of India sends a strong protest to Pakistan Govt. concerning firing by border police at Nekowal, near Jammu, in which 10 Indians were killed. **15** — Gen. S. M. Shrinagesh takes over as Chief of Army Staff. **29** — N. M. Joshi, a founder of Trade Union movement in India, dies of heart-attack in Bombay. **June 4** — India establishes direct radio telephone link with U.S.S.R. **15** — Ministry of Iron and Steel is inaugurated. **July 10** — Govt. of India draws up a programme to replace English with Hindi. **12** — An Indo-Pakistan Conference to discuss opening of passenger traffic between India and West Pakistan begins in New Delhi. **15** — President confers *Bharat Ratna*, highest national award, on Jawaharlal Nehru. **20** — All Party Goa Liberation Cttee. decides to launch mass satyagraha on August 15. **21** — Dr. Ram Manohar Lohia suspended from P.S.P. **August 1** — Direct rail service between Calcutta and Lahore resumed. **5** — Appointment of 11-member Law Commission with C. K. Setalvad as Chairman is announced by C. C. Biswas, Union Law Minister. **8** — Dr. H. J. Bhabha is elected Chairman of International Conference on Peaceful Uses of Atomic Energy. **15** — Thirty-one Indian Satyagrahis are killed and 44 wounded by Portuguese police. **24** — Dr. Ram Manohar Lohia announces decision to form a new 'Socialist Party of India' at Allahabad. **September 7** — All India Council for Secondary Education is set up by Govt. **19** — Jt. Select Cttee. of Parliament on Hindu Succession Bill recommends equal shares for sons and daughters in respect of interstate property of father. **30** — States Reorganisation Commission submits report to Govt. **October 2** — Jawaharlal Nehru inaugurates Integral Coach Factory Perambur. **5** — Jawaharlal Nehru inaugurates Hindustan Machine Tools Factory at Bangalore. **24** — Prohibition Enquiry Cttee. recommends nationwide prohibition in India by April 1958. **November 9** — Congress Wkg. Cttee. approves S.R.C. proposals in respect of all the areas except Bombay, Punjab and Andhra. **19** — Bulganin, the Russian Prime Minister, and Khruschev, Secretary of the Communist Party of Russia, arrive in Delhi on a good-will visit.

1956

January 7 — Govt. of India recognises Republic of Sudan. **19** — President promulgates an ordinance bringing all life insurance companies under Govt. management; Dr. P. C. Bagchi, Vice-chancellor of Viswa Bharati Univ. passes away at Shantiniketan. **23** — A new cabinet headed by Sardar Pratap Singh Kairon sworn in by Punjab Governor. **February 1** — S. R. Das is sworn in as Chief Justice of India. **16** — Their Imperial Majesties, Shah and Queen of Iran, arrive in Delhi; Dr. Meghnad Saha, eminent scientist and a member of Lok Sabha, passes away in N. Delhi. **19** — Acharya Narendra Dura, Chairman of the P.S.P. and a noted educationist, passes away at Erode. **27** — G. V. Mavalankar, Speaker of Lok Sabha, passes away at Ahmedabad. **March 1** — C. D. Deshmukh, Min. of Finance, discloses Govt. is not in favour of taking over General Insurance business. **8** — M. Ananthasayanam Iyengar elected speaker of Lok Sabha. **20** — Sardar Hukum Singh elected Dy. Speaker of Lok Sabha. **April 6** — Shipping agreement between India and Soviet Union signed. **18** — States Reorganisation Bill introduced in Lok Sabha. **26** — Jawaharlal Nehru opens India's first newsprint factory at Nepanagar, Madhya Pradesh. **28** — India and Canada sign pact on Atomic Reactor. **May 5** — Indo-Pakistan ministerial conference on minority exodus meets at Dacca. **13** — Acharya Vinoba Bhave starts Bhoodan campaign in Tiruvellore. **15** — Jawaharlal Nehru presents Second Five Year Plan to Houses of Parliament. **June 20** — Govt. of India recognises Tunisia and Morocco as Sovereign States. **22** — Dr. John Mathai resigns office of Chairman, State Bank of India. **July 13** — Govt. of India decides to constitute a Central Harijan Welfare Board. **23** — B. G. Tilak's Centenary celebrated throughout country. **24** — President accepts resignation of C. D. Deshmukh, Union Min. for Finance. **August 3** — Dr. Zakir Hussain re-elected President of World University Service. **4** — India's first Atomic Reactor goes critical in Bombay. **6** — Union Cabinet decides on bilingual Bombay State. **18** — K. Hanumanthaiya, Chief Minister of Mysore, tenders resignation of his cabinet. **19** — A new six-member Mysore Ministry, headed by K. Manjappa, sworn in at Bangalore. **24** — C. D. Deshmukh appointed Chairman of University Grants

Commission. **31** — T. T. Krishnamachari appointed Finance Minister of India. **September 2** — 120 persons killed in a rail disaster in Hyderabad state. **5** — India and Burma sign five-year trade agreement in Delhi. **18** — Sardar K. M. Panikkar appointed India's ambassador to France. **20** — S. K. Dey sworn in as Min. for Community Devpt. B. R. Sen elected Director General of Food and Agricultural Organisation at Rome. **October 14** — Dr. B. R. Ambedkar and about 200,000 Scheduled Caste members embrace Buddhism in Nagpur. **16** — Y. B. Chavan elected leader, Cong. Legislature Party, Bombay State. **17** — Ernakulam-Quilon Railway link inaugurated by Railway Min. Lal Bahadur Shastri. **18** — Dr. Hare Krushna Mahtab sworn in as Chief Minister, Orissa. **19** — S. Nijalingappa elected leader of New Mysore Cong. Legislature Party. **November 6** — Maulana Azad elected president of Ninth Session of UNESCO in New Delhi. **14** — Morarji Desai sworn in as Minister of Union Cabinet. **24** — Dalai Lama, Panchan Lama and Maharaja of Sikkim arrive in Delhi to participate in 2,500th Buddha Jayanti celebrations. **25** — Lal Bahadur Shastri resigns following the Ariyalur train disaster. **28** — Chou En Lai, Prime Min. of China, and party arrive in New Delhi on 12-day visit. **December 6** — Dr. B. R. Ambedkar passes away in Delhi. **30** — Chou En Lai and Nehru begin their second round of talks.

1957

January 5-6 — 62nd Session of Indian National Congress meets at Laxmibai Nagar, Indore, under presidentship of U. N. Dhebar. **20** — Prime Minister Nehru inaugurates atomic reactor in Bombay. **22** — India and Pakistan sign trade agreement. **February 24** — India's Second General Elections begin. **March 11** — B. G. Kher passes away in Poona. **16** — P. S. Kumara Swamy Raja, former Governor of Orissa, passes away. **May 10** — Dr. Rajendra Prasad re-elected President of India for second term. **13** — Dr. Rajendra Prasad and Dr. S. Radhakrishnan are sworn in as President and Vice-President respectively. **20** — T. Prakasam, valiant freedom fighter and former Chief Minister of Andhra, passes away at Hyderabad. **June 2** — Twenty-two persons die in a suburban electric train collision at Wadala, Bombay. **10** — V. V. Giri sworn in as Governor of Uttar Pradesh. **14** — H. V. Pataskar sworn in as Governor of Madhya Pradesh. **August 2** — Devdas Gandhi, S/o Mahatma Gandhi, passes away in Bombay. **16** — Centenary of First War of Independence (Mutiny 1857) celebrated all over India. **26** — Nagas' convention decides at Kohima to give up demand for Independence. **28** — Jayaprakash Narayan resigns from P.S.P. **September 8** — R. R. Divakar, former Governor of Bihar, elected Chairman of Gandhi Smarak Nidhi. **October 1** — A. J. John, Governor of Madras, passes away in Madras. P. V. Rajamannar, Madras Chief Justice, is acting Governor. **16** — Justice P. Govinda Menon dies in New Delhi. **29** — Pres. Rajendra Prasad confers upon Pandit G. B. Pant the title of Bharat Ratna. **November 5** — Yuvraj Karan Singh elected Sadar-i-Riyasat of Jammu and Kashmir State. **10** — U.S.S.R. and India sign an agreement for setting up heavy industries in India. **December 5** — U.S.A. and India sign pact for eradicating malaria in 3 years. **14** — Jawaharlal Nehru inaugurates Calcutta suburban electric train.

1958

January 8 — Harold MacMillan, British Prime Minister, arrives in New Delhi. **12** — Dr. Frank Graham, U.N. Rep. for India and Pakistan, arrives in New Delhi. **18** — 63rd annual session of Indian National Congress meets at Gauhati under presidentship of U. N. Dhebar. **26** — D. K. Karve awarded Bharat Ratna. **February 5** — Ho Chi-Minh, Pres., Democratic Republic of Viet Nam, arrives in New Delhi. **12** — T. T. Krishnamachari, Union Finance Minister, resigns. **22** — Maulana Abul Kalam Azad, Union Min. for Education, passes away in New Delhi. **March 22** — Morarji Desai takes over as Union Finance Minister. **29** — S. K. Patil takes over as Minister for Transport and Communications. **April 14** — Smt. Aruna Asaf Ali elected first Lady Mayor of Delhi Municipal Corpn. **18** — Dr. D. K. Karve celebrates 101st birthday. **May 13** — Discovery of natural gas at Jwalamukhi announced. **19** — Jadunath Sarkar, famous historian, passes away in Calcutta. **June 14** — Dr. C. V. Raman receives Lenin Peace Prize at Kremlin. **July 1** — S. K. Patil, Union Minister for Transport and Communications, inaugurates first direct shipping link between Calcutta and New York. **August 9** — Indian Security Forces drive Pakistan intruders from Tukergram. **September 11** — A joint communique by Prime Ministers of India and Pakistan on border disputes released in New Delhi. **14** — M. C. Chagla appointed India's Ambassador to U.S.A. **15** — N. V. Gadgil sworn in as Governor of Punjab. **18** — Dr. Bhagwan Das, eminent philosopher and scholar, passes away in Banaras. **October 12** — Periyar Hydro-electric project inaugurated. **November 10** — Oil is struck at one experimental drilling site at Vadser, near Vadodara (Baroda). **15** — National Mineral Devpt. Corpn. Pvt. set up. **17** — A Central Board of Workers' Education set up. **December 15** — Jawaharlal Nehru warns Pakistan that aggression will be met everywhere.

1959

January 10 — Dr. Rajendra Prasad inaugurates Diamond Jubilee celebration of Haffkine Institute in Bombay. **21** — Prince Phillip, Duke of Edinburgh, arrives in New Delhi on a state visit. **24** — First blast furnace of Rourkela Steel Plant commissioned. **March 10** — M. R. Jayakar, former Vice-Chancellor of Poona University, passes away in Bombay. **18** — U.N. Secretary General Dag Hammarskjoeld arrives in New Delhi and meets Jawaharlal Nehru. **April 3** — Jawaharlal Nehru makes statement in Lok Sabha regarding Dalai Lama's entry into Indian territory on March 31, and seeking political asylum. **26** — Indian Institute of Astronomical and Sanskrit Research inaugurated in New Delhi. **May 6** — Discovery of new coal seam in Madhya Pradesh announced in Lok Sabha. **June 11** — Prof. N. G. Ranga resigns from Congress and takes up leadership of newly formed Swatantra Party. **22** — Kasturi Srinivasan, editor of Hindu, passes away in Madras. **July 3** — Robert Menzies, Prime Minister of Australia, arrives in New Delhi on State visit to India. **August 1** — Swatantra Party's convention meets in Bombay. **22** — Saiyid Fazl Ali, Governor of Assam, passes away at Shillong. **28** — Prime Minister informs Lok Sabha of intrusion of Chinese Forces in NEFA and Ladakh. **September 10** — Govt. of India sends note to Chinese Govt. reaffirming stand on MacMohan Line as representing boundary between India and Tibet region of China. **30** — Kumari Arati Saha successfully swims English Channel. **October 21** — Chinese soldiers enter Eastern Ladakh, kill 9 patrol policemen, and capture 10. **November 2** — Dr. John Mathai, former Union Finance Minister, passes away in Bombay. **14** — China releases ten members of police patrol. **25** — A. S. Altekar, eminent Indian Historian, dies in Patna. **29** — G. S. Sardesai, an eminent historian on Maratha history, dies at Kamshet, near Poona. **December 4** — Maulana Ahmed Sayeed, President of Jamiat-ul-Ulema Hind, passes away. **9** — Dwight D. Eisenhower, President of U.S.A., arrives in N. Delhi on state visit to India. **17** — B. Pattabhi Sitaramayya, a former Pres. of Congress and former Governor of M.P., passes away in Hyderabad. 27 — Prime Minister of Cambodia, Prince Norodom Sihanouk arrives in New Delhi.

1960

January 10 — Jawaharlal Nehru lays foundation stone of Rs. 100 million rail-cum-road bridge across Brahmaputra at Pandur. 16–17 — Congress session under presidentship of Sanjiva Reddy meets at Bangalore. 20 — President Voroshilov of Soviet Russia arrives in New Delhi on state visit. 21 — Trade agreement between India and Yugoslavia signed in N. Delhi. 30 — J. C. Kumarappa, renowned scholar of Gandhian thought, passes away in Madras. **February** 2 — His Holiness Sri Sankaracharya of Puri passes away in Bombay. 11 — Nikita Khruschev, Prime Minister of USSR, arrives in New Delhi. **April** 19 — Chou En Lai, Prime Minister of China, arrives in N. Delhi for talks on Sino-Indian border problem; The National Defence College opened in N. Delhi. **May** 1 — New States of Maharashtra and Gujarat come into being. 24 — Ida S. Scudder, founder of Vellore hospital and Medical College, passes away at Kodaikanal. **June** 16 — Indo-Russian agreement for collaboration in oil and gas exploration signed in N. Delhi. 16 — International Telex Service between India and United Kingdom inaugurated. **July** 1 — B. Ramakrishna Rao and V. V. Giri take charge as governors of U.P. and Kerala respectively. 10 — Canada-India reactor at Trombay attains criticality. **September** 14 — M. Visveswarya Centenary celebrations inaugurated in Bangalore. 16 — National Tuberculosis Institute of India inaugurated in Bangalore. **October** 14 — Indo-Polish trade pact signed in Warsaw. 25 — Trade agreement between India and Yugoslavia signed in Belgrade. **November** 6 — Prime Minister, Jawaharlal Nehru, formally inaugurates Heavy Electricals Plant at Bhopal. 9 — Air Marshal Subroto Mukherjee, India's Chief of Air Staff, dies in Tokyo. 11 — Prime Minister of Burma, U Nu and Mrs. U Nu arrive in New Delhi on a state visit. 19 — Jawaharlal Nehru inaugurates Govind Sagar Dam and Power House of Chambal Project. 29 — Crown Prince Akihito and Princess Michiko of Japan arrive in New Delhi on state visit. **December** 1 — C. B. Gupta elected chief of Congress legislature in Uttar Pradesh; Air Marshal A. M. Engineer takes over Command of Indian Air Force. 3 — Lt. Gen. P. N. Thapar appointed as Chief of Army Staff. 10 — C. C. Biswas, former Union Min. for Law, dies in Calcutta.

1961

January 6 — 66th Session of Indian National Congress meets at Sardarnagar, Bhavnagar. 12 — Papers concerning Indus water treaty between India and Pakistan exchanged in New Delhi. 16 — Exchange of territories between India and Pakistan under Indo-Pakistan border agreement begins. 21 — Queen Elizabeth and Duke of Edinburgh arrive in New Delhi on state visit. 31 — Bihar's Chief Minister, Srikrishna Sinha, passes away in Patna. **February** 18 — Binodanand Jha heads new ministry in Bihar. **March** 2 — Queen Elizabeth and Duke of Edinburgh leave after Indian tour. 7 — Union Home Minister, Pt. Gobind Vallabh Pant, passes away in N. Delhi. 9 — K. Rama Rao, former editor of National Herald, passes away. 24 — Five-day session of World Council of Peace inaugurated in N. Delhi. **April** 6 — Vice-President Radhakrishnan inaugurates Motilal Nehru Birth Centenary Celebrations at Agra. **May** 2 — Tagore Birth Centenary Celebrations are inaugurated in N. Delhi. **June** 24 — Hindustan Fighter (HF-24) supersonic aircraft, manufactured in India, makes inaugural flight. 29 — Sardar Baldev Singh, former Defence Minister passes away in Delhi. **July** 19 — President Rajendra Prasad taken seriously ill in N. Delhi. 25 — Dr. S. Radhakrishnan sworn in as acting President of India. **August** 15 — Master Tara Singh, Akali leader, begins fast unto death for demand of Punjabi Suba in Amritsar. 16 — Swami Rameshwaranand, Pres. of Punjab Hindi Raksha Samiti, begins counter fast in Delhi to oppose Akali demand for Punjabi Suba. 22 — Indo-Pakistan Conference on Punjab West Pakistan Border begins in N. Delhi. **October** 1 — Master Tara Singh breaks 48-day old fast. **November** 7 — Jawaharlal Nehru meets Pres. Kennedy in Washington. 21 — Averell Harriman, Spl. representative of Pres Kennedy, arrives in New Delhi. 29 — First Russian Cosmonaut, Yuri Gagarin arrives in New Delhi. **December** 18 — India's Defence Forces march into Goa.

1962

January 1 — First state-owned oil refinery at Nunmati, Assam, inaugurated. 13 — Ajoy Ghosh, General Secretary of Communist Party of India, passes away. 14 — Air defence radar set, developed and manufactured in India, inaugurated in Poona. **March** 12 — Mrs. Jacqueline Kennedy, wife of Pres. John F. Kennedy of U.S.A., arrives in N. Delhi. **April** 14 — M. Visveswaraya, Engineer-Statesman, passes away in Bangalore. **May** 7 — Dr. Zakir Husain declared elected Vice-President of India. 11 — Dr. S. Radhakrishnan declared elected Pres. of India. 13 — Dr. S. Radhakrishnan and Dr. Zakir Hussain take oath of office; Dr. Rajendra Prasad, outgoing president, awarded 'Bharat Ratna'. A special postage stamp is also issued in his honour. **July** 1 — Dr. B. C. Roy, eminent statesman and physician and Chief Minister of West Bengal, passes away in Calcutta; Purushottamdas Tandon, former Cong. President (Bharat Ratna), passes away in Allahabad. **August** 20 — Govt. of India decides to build second nuclear power station at Rana Pratap Sagar near Kotah in Rajasthan. 29 — Lok Sabha passes State of Nagaland Bill 1962. **September** 8 — Chinese make fresh encroachment on Indian territory in eastern sector. 25 — Three-member team of Gandhi Peace Foundation, headed by C. Rajagopalachari leaves for U.S.A. to appeal for ban on nuclear arms. 28 — Indian and Chinese troops exchange fire near Dhola post. **October** 12 — Heavy fighting begins on NEFA front between Indian and Chinese troops. 20 — China launches massive attack in NEFA and Ladakh areas. 31 — Prime Minister Nehru takes over Defence Portfolio and appoints Krishna Menon as Minister for Defence Production. **November** 9 — Bharat Ratna D. K. Karve, eminent educationist, social worker and centenarian, passes away in Poona. 21 — China announces cease-fire from midnight along entire Sino-Indian Border. **December** 18 — Yugoslav Vice-President Kardelj arrives in New Delhi. 28 — Pakistan and China decided to sign boundary agreement on basis of 'location and alignment of boundary actually existing' between Sinkiang and Pakistan occupied portion of Kashmir.

1963

January 7 — Rs. 460 million Rihand Dam, near Mirzapur inaugurated by Jawaharlal Nehru. 9 — Morarji Desai, Union Finance Minister, announces measures to control gold in India. 11 — Lala Shri Ram, a Philanthropist, Educationist and Industrialist, passes away in N. Delhi. 15 — Pakistan delegation headed by Z. A. Bhutto arrives in New Delhi for second round of talks on Kashmir and related matters. 20 — Dr. S. Radhakrishnan, inaugurates Vivekananda Centenary celebrations in Calcutta. **February** 28 — Dr. Rajendra Prasad, first President of India, passes away in Patna. **April** 17 — Dr. S. Radhakrishnan presents Bharat Ratna awards to Dr. Zakir Hussain and P. V. Kane. 27 — An agreement with Phillips Petroleum Co. of U.S.A. for setting a refinery in India signed in N. Delhi. **May 14** — Dr. Raghuvira, President of the Jan Sangh, passes away in Kanpur. **June 2** — Dr. S. Radhakrishnan leaves for U.S.A. on a state visit. **July 14** — Swami Sivananda Saraswati, founder President of Divine Life Society, passes away at Rishikesh. **August 26** — President, Dr. S. Radhakrishnan, accepts resignations of six Union ministers (who resigned under Kamaraj Plan). **October 6** — Baba Kharak Singh, veteran Sikh leader, passes away in N. Delhi. **11** — Saif-ud-din Kitchlew, close associate of Gandhiji and Lenin Prize winner, passes away in N. Delhi. **23** — Third unit of HMT inaugurated by Prime Minister Nehru at Pinjore. **November 20** — K. Kamaraj elected President of Indian National Congress. **December 1** — Dr. S. Radhakrishnan inaugurates Nagaland as 16th State of Indian Union. **10** — Sardar K. M. Panikkar, renowned scholar and diplomat, passes away in Madras. **18** — Smt. Vijayalakshmi Pandit sworn in as Governor of Maharashtra in Bombay.

1964

January 4 — Orientalists from all over the world meet in N. Delhi. **9** — Kamaraj delivers presidential address to 68th session of Indian National Congress held at Bhubaneshwar. **February 6** — Raj Kumari Amrit Kaur passes away; India rejects in U.N. Security Council Pakistan's demand for plebiscite in Kashmir. **18** — I.A.F. transport Illyushin Aircraft reported missing. Top army officials aboard are believed killed. **April 15** — National Council of Communist Party of India suspends 32 leaders from party membership. **May 27** — Jawaharlal Nehru, First Prime Minister of Independent India, passes away; Late Jawaharlal Nehru cremated in N. Nelhi (Shantivana). **June 2** — Lal Bahadur Shastri elected leader of Congress Parliamentary Party. **9** — Lal Bahadur Shastri sworn in as Prime Minister. **September 10** — H. N. Sanyal, Solicitor General of India, is murdered in N. Delhi. **October 12** — Prime Minister Shastri and President Ayub Khan of Pakistan meet in Karachi. **18** — Smt. Vijayalakshmi Pandit resigns Governorship of Maharashtra. **December 2** — Millions welcome Pope in Bombay. **3** — Pope Paul confers highest decoration (Golden spur) on Dr. S. Radhakrishnan. **5** — Pope Paul leaves India. **18** — Pakistan diplomat expelled from Calcutta for spying. **31** — Chinese troops intrude into Sikkim. India sends protest note.

1965

January 8 — Prime Minister Lal Bahadur Shastri lays foundation stone of Durgapur Fertiliser Factory. **15** — Barauni Oil Refinery inaugurated. **26** — Hindi becomes official language of Union. **February 6** — S. Pratap Singh Kairon, former Chief Minister of Punjab, shot dead near Delhi. **April 16** — Namrup thermal power project commissioned. **May 12** — Lal Bahadur Shastri arrives in Moscow on 8-day state visit. **June 9** — Lal Bahadur Shastri leaves on tour of UAR, Canada, U.K., and Algeria. **23** — Presidential awards for Everest heroes are announced. **July 20** — Batukeshwar Dutt, great revolutionary, passes away in N. Delhi. **August 5** — Jayaprakash Narayan awarded Ramon Magsaysay Award for public service. **7** — Pakistani sabotage parties infiltrate two sectors of ceasefire line in Jammu and Kashmir. **13** — Lenin Peace Prize awarded to Mrs. Aruna Asaf Ali. **15** — Television transmission begins in New Delhi. **25** — Indian security forces cross ceasefire line in Kashmir at two points and establish new positions. **September 1** — Pakistan invades Indian territory in Chhamb sector; India retaliates. **6** — President Ayub of Pakistan declares war on India. **17** — China issues 72 hour ultimatum to India to dismantle military installations on Sikkim border. Prime Minister Shastri warns China against trying to intervene militarily in India-Pakistan conflict. **18** — Soviet Union requests Prime Minister Lal Bahadur Shastri and President Ayub Khan of Pakistan to meet at Tashkent to resolve differences. **19** — Chief Minister Balwantrai Mehta of Gujarat dies in plane mishap. **22** — India and Pakistan accept ceasefire proposals of U.N. Security Council. **October 11** — First phase of Gujarat refinery at Koyali commissioned. **30** — Pakistan seizes Indian jute and tea worth Rs. 50 million from ships seized in war. **November 12** — Head of Dawoodi Bohra community Dr. Saifuddin passes away. **23** — Prime Minister Lal Bahadur Shastri accepts Soviet Prime Minister Kosygin's invitation for talks with President Ayub Khan of Pakistan in Tashkent. **December 18** — Gen. K. S. Thimayya, Commander of U.N. Peace Force in Cyprus passes away in Nicosia. **29** — First tank made in India rolls out of Avadi factory.

1966

January 7 — A five-year trade agreement is signed with U.S.S.R. **10** — Indo-Pakistani agreement signed at Tashkent. **11** — Prime Minister Lal Bahadur Shastri passes away within hours of signing Tashkent agreement. **18** — Smt. Indira Gandhi elected leader of Congress Parliamentary Party. **24** — Smt. Indira Gandhi sworn in as Prime Minister. Dr. Homi Bhabha, India's nuclear Scientist and Chairman of Atomic Energy Commission, dies in Air India crash on Mont Blanc in the Italian Alps. **February 26** — V. D. Savarkar, an eminent revolutionary, passes away. **March 8** — A. K. Sarkar appointed as Chief Justice of India. **May 9** — President Radhakrishnan inaugurates Gokhale birth centenary celebrations at Poona. **26** — India lifts ban on trade with Pakistan; Vikram Sarabhai appointed Chairman of Atomic Energy Commission and Secretary of Deptt. of Atomic Energy. **June 6** — Devaluation of Rupee by 36·5 per cent. **July 1** — Fourth unit of H.M.T. factory at Kalamasserry is inaugurated by Prime Minister Smt. Indira Gandhi. **September 10** — Reorganisation Bill passed. **23** — Cochin Oil Refinery inaugurated by Prime Minister, Smt. Indira Gandhi. **26** — Sir C. P. Ramaswami Aiyer, eminent educationist, passes away in London. **October 17** — Govt. appoints commission, headed by Mehar Chand Mahajan, to go into border disputes between Maharashtra and Karnataka and Karnataka and Kerala. **November 1** — States of Punjab and Haryana and Union territory of Chandigarh come into being. **9** — Gulzarilal Nanda, Home Minister, resigns. **13** — Y. B. Chavan becomes Home Minister and M. C. Chagla, External Affairs Minister. **December 1** — Parliament passes Goa Opinion Poll Bill. **21** — V. K. Krishna Menon quits Congress.

1967

January 5 — India's first Ayurvedic University inaugurated. **20** — Goa rejects option for merger with Maharashtra by an impressive majority in opinion poll. **February 25** — Nizam of Hyderabad passes away. **March 13** — New council of ministers headed by Smt. Indira Gandhi sworn in. Morarji Desai becomes Dy. Prime Minister. **16** — New Lok Sabha meets. **April 9** — President Radhakrishnan decides to retire. **10** — U.N. Secretary General U. Thant arrives in Delhi. **12** — President presents Nehru Award to U. Thant. **May 6** — V. V. Giri wins Vice-Presidential election. **9** — Dr. Zakir Husain elected President of India. **15** — Bharatiya Kranti Dal is formed by non-congress leaders. **August 23** — Pakistan expels three officials of Indian High Commission. **September 1** — China takes over Indian property in Tibet. **5** — M. C. Chagla resigns from cabinet on language policy. **October 12** — Dr. Ram Manohar Lohia passes away. **November 1** — Telecommunication links with Pakistan restored. **4** — Mahajan Commission awards Belgaum to Karnataka. **22** — Master

Tara Singh, Akali leader, passes away. **December 11** — A series of earth tremors in Western India wipes out entire Koyna township killing about 250 people. **12** — Mehar Chand Mahajan, former Chief Justice of India, passes away.

1968

January 26 — Dr. M. S. Aney, a prominent Congressman, passes away. **February 11** — Deendayal Upadhyaya, President of the Bharatiya Jan Sangh, found dead on railway track in Mugalsarai Railway Yard. **13** — A. B. Vajpayee elected Jan Sangh President. **17** — Dr. Kailash Nath Katju passes away. **April 6** — Prime Minister Smt. Indira Gandhi inaugurates construction work of Bokaro Steel Plant. **28** — Emperor Haile Selassie of Ethiopia arrives in New Delhi. **May 13** — India sends protest notes to China and Pakistan over Gilgit-Sinkiang road agreement. **27** — Second Nehru Award for International Understanding for 1966 is given to Rev. Martin Luther King posthumously. **July 6** — Submarine Wing of Indian Navy comes into being with arrival of INS *Kalvari*. **September 1** — President Ayub Khan of Pakistan rejects India's offer of 'No-War' pact. **November 10** — Asia's biggest mechanised iron mine at Bailadila project in Madhya Pradesh starts functioning.

1969

January 2 — Shah and Queen of Iran arrive in New Delhi. **10** — Dr. Sampurnanand, prominent Congressman and former U.P. Chief Minister, passes away at Varanasi. **February 3** — Tamil Nadu Chief Minister C. N. Annadurai (DMK leader) passes away. **16** — President Zakir Husain inaugurates week long Ghalib Centenary celebrations, Ghalib Centenary stamp is released. **22** — Dr. Gokul Chand Narang, Arya Samaj leader, passes away in Delhi. **March 9** — Sir Homi Mody, founder-member of Swatantra Party, passes away in Bombay. **25** — President Ayub Khan steps down from power. **31** — Gen. Yahya Khan assumes office of President of Pakistan. **April 5** — First India-built tanker for Navy launched. **18** — King and Queen of Afghanistan are received at Palam airport by President Zakir Husain and Prime Minister Smt. Gandhi. **22** — A Calcutta bound Indian Airlines Fokker Friendship plane crashes at Dumuria, killing all 40 passengers and crew of four. **15-28** — 72nd Congress session under presidentship of S. Nijalingappa meets at Neki Ram Sharma Nagar, Faridabad. **May 3** — President Dr. Zakir Husain dies of heart attack. V. V. Giri sworn in as acting President. **June 8** — Gen. Kumaramangalam retires as Chief of Army Staff; Gen. Manekshaw takes over. **26** — India lodges protest with Pakistan and China against construction of new road from Mor Khun in Northern Kashmir to Khunjerah pass on Kashmir-Sinkiang border. **July 12** — Congress Parliamentary Board meeting at Bangalore nominates N. Sanjiva Reddy for Presidentship. **13** — V. V. Giri, Acting President, announces candidature for Presidentship. **15** — Major train accident near Jaipur, 82 killed and 123 injured. **16** — Prime Minister takes over Finance portfolio from Morarji Desai; Morarji Desai resigns. **19** — Fourteen top scheduled banks with deposits exceeding Rs. 500 million are nationalised. Acting President V. V. Giri resigns as Vice-President. **21** — V. V. Giri and N. Sanjiva Reddy file nomination papers for Presidentship. **31** — U.S. President Richard Nixon arrives in Delhi. **August 1** — Prime Minister Smt. Indira Gandhi and President Richard Nixon hold talks in New Delhi. **9** — Bank Take-over Bill becomes law after President's assent. **15** — Smt. Indira Gandhi insists on freedom of vote in Presidential election; Congress splits on issue. **18** — Prof. Humayun Kabir, former Union Min. passes away in New Delhi. **20** — V. V. Giri elected President of India and sworn in on 24th. **30** — Gopal Swarup Pathak, Congress candidate, is elected as Vice-President of India. **September 8** — Supreme Court issues limited stay of operation on Bank Nationalisation Act. **19** — Large scale communal clashes takes place in Ahmedabad. **23** — India invited to Islamic Summit Conference at Rabat and then refused entry. **October 1** — Khan Abdul Ghaffar Khan arrives in India after 23 years to take part in Gandhi Centenary celebrations. **2** — Gandhi Birth Centenary celebrations begin. The President, V. V. Giri, releases a set of coins and notes. **8** — Dr. P. V. Cherian, Governor of Maharashtra, dies of heart attack. **November 14** — Indira Gandhi donates 'Anand Bhavan' at Allahabad to Jawaharlal Nehru Memorial Fund; President V. V. Giri inaugurates Jawaharlal Nehru University in New Delhi. **23** — Quin-Centenary celebrations of Guru Nanak begin. **24** — Akali Leader, Sant Fateh Singh, threatens self-immolation if Chandigarh not merged with Punjab; Khan Abdul Ghaffar Khan addressed both Houses of Parliament. **December 1** — Jagjivan Ram chosen President of Congress (R). **3** — Atal Behari Vajpayee re-elected Jan Sangh President. **9** — G. G. Swell elected Dy. Speaker of Lok Sabha. **13** — B. Rama Rau, former Governor of Reserve Bank of India, expires. **20** — Congress Organisation session begins at Ahmedabad. **24** — Meghalaya (Assam Reorganisation) Bill passed by Parliament. **25** — Congress (Ruling) session begins in Bombay.

1970

January 8 — Tamil Nadu Govt. abolishes controls over movement and sale of foodgrains in State. **24** — Foundation stone of Rs. 180 million Gujarat Aromatic Project laid at Vadodara. **27** — Sant Fateh Singh starts six-day fast demanding merger of Chandigarh with Punjab. **29** — Union Govt. awards Chandigarh to Punjab and Rs. 200 million and 110 villages in Fazilka to Haryana. **February 3** — Foundation stone of new Rs. 700 million fertilizer plant laid at Talcher in Orissa. **9** — Prime Minister inaugurates Rs. 300 million Urea Fertilizer plant at Kota (Rajasthan). **28** — Admiral S. M. Nanda takes over as Chief of Naval Staff. **March 8** — Haryana and Uttar Pradesh agree to undertake joint construction of Kishan Dam project near Dehra Dun at cost of Rs. 1,800 million. **19** — Prime Minister inaugurates drilling of country's first off-shore oil well in Gulf of Cambay. **24** — Lok Sabha passes Banking Companies (Acquisition and Transfer of Undertaking) Bill to replace Ordinance re-nationalising 14 major banks. **April 2** — Prime Minister Indira Gandhi inaugurates Meghalaya, a new autonomous Hill State in Assam. **3** — India signs Rs. 5,362·5 million iron-ore export deal with Japan. **23** — President Giri leaves for Bhutan on four-day state visit. **May 11** — Supreme Court upholds election of V. V. Giri as President of India. **19** — Prime Minister Indira Gandhi lays foundation stone of 5·7 km. road bridge across Ganges at Patna. **23** — India and U.S.A. sign trade agreement at N. Delhi. **30** — Administrative Reforms Commission wound up. **July 19** — Kashmir police smashes Pak spy-ring in State. **22** — Floods in Alaknanda river sweeps away 22 vehicles and about 200 persons at Belakuchi, 40 miles from Badrinath. **August 2** — Dr. Telo Mascarenhas arrives in N. Delhi, after serving ten-year term in Portuguese jails. **9** — Trailokyanath Chakravarty Maharaj, revolutionary leader from East Bengal, passes away. **23** — Union Govt. asks British Broadcasting Corpn. to close down its operation in India. **29** — I. A. Fokker plane crashed in Meghalaya with 39 people aboard. **September 2** — President

V. V. Giri inaugurates Vivekananda Rock Memorial at Kanyakumari. **5** — Prime Minister Indira Gandhi leaves for Lusaka to attend Non-aligned summit meeting. **20** — President V. V. Giri arrives in Tashkent on 10-day State visit to Soviet Union. **October 9** — Bhabha Atomic Research Centre produces Uranium 233. **19** — First India-made MIG aircraft handed over to Air Force. **24** — India tells U.S.A. that American resumption of arms to Pakistan can seriously damage Indo-American relations. **November 4** — Jawaharlal Nehru Award for International Understanding for 1968 presented to Yehudi Menhuin in N. Delhi. **10** — Centre agrees to full statehood for Meghalaya. **21** — Dr. C. V. Raman, eminent Physicist and Nobel Prize winner, passes away in Bangalore. **27** — Prime Minister Indira Gandhi presents Bharatiya Janapith Award for 1969 to Raghupathi Sahai 'Firaq'. **30** — Guruvayoor Sri Krishna temple ravaged by devastating fire. **December 15** — Lok Sabha passes Bill conferring statehood on Himachal Pradesh. **26** — Indo-Soviet agreement on long-term trade signed in N. Delhi.

1971

January 2 — Congress (O), Jana Sangh and Samyukta Socialist Party form aliance against Congress (R) for Fifth General Elections. **18** — P.S.P. leader Nath Pai dies of heart-attack. **30** — Indian Airlines Fokker friendship aircraft, on regular flight from Srinagar to Jammu, hijacked to Lahore. **February 2** — Hijacked plane blown up at Lahore airport. India bans overflight of Pak military aircraft across Indian territory. **18** — India establishes first satellite communication link *via* Arvi Earth Stn. with Goonbilly in Britain. **March 1** — Polling in Fifth General Election begins all over country. **10** — Tenth Census begins all over country. **18** — A new Union Council of Ministers headed by Smt. Indira Gandhi sworn in. **31** — Both Houses of Parliament pass resolutions expressing solidarity with people of East Pakistan (Bangla Desh) following arrest of Sheikh Mujibur Rahman on 25th March. **April 6** — India grants asylum to two diplomats, K. M. Shahabuddin and Anjadul Haque, belonging to Pak. High Commission in Delhi. **15** — India protests to Pakistan against wanton unprovoked firing along East Bengal border. **18** — Pak. Dy. High Commission in Calcutta declares allegiance to Bangladesh. **24** — Pakistan withdraws Dy. High Commission from Calcutta and asks India to withdraw its mission from Dacca. **May 13** — President Giri promulgates General Insurance Ordinance nationalising general insurance companies. **19** — New submarine base of Indian Navy *Vir Bahu* commissioned. **June 16** — India and Soviet Union agree on five-year plan (1971–75) for joint exploration of minerals in oceans adjacent to India. **August 2** — Parliament approves Medical Termination of Pregnancies Bill legalising abortions. **5** — Pakistan President Yahya Khan threatens to unleash war on India. **6** — In a memorandum to U.N. Secretary General 500 M.Ps. appeal to save life of Sheikh Mujibur Rahman. **9** — India and Soviet Union sign 20-year treaty of Peace, Friendship and Co-operation. **31** — Dr. M. S. Swaminathan awarded 1971 Raman Magsaysay award for community leadership. **October 5** — India and W. Germany sign 5-year agreement on developing peaceful uses of atomic energy. **November 1** — Severe cyclone hits Orissa. **7** — Rs. 48·7 million dry dock at Hindustan Shipyard, Visakhapatnam, inaugurated. **18** — Defence Ministry announces formation of India's second naval fleet — Eastern Fleet — to be based at Visakhapatnam. **22** — Indian Air Force Gnats shoot down three intruding Pak planes over Boyra near Calcutta. **December 3** — Pakistan attacks on Indian airbases in eastern and western sectors. President Giri declares state of emergency in country. Pakistan declares war on India. **4** — India informs U.N. of Pak aggression. **6** — India recognises People's Republic of Bangladesh. — Pakistan snaps diplomatic ties with India. **10** — India and Bangladesh sign agreement for unified military command. **11** — Gen. Manekshaw calls upon Pak troops in Bangladesh to surrender. **16** — Lt. Gen. Arora, G.O.C.-in-C., Eastern Command, accepts unconditional surrender of Pak forces in Dacca; Prime Minister Indira Gandhi announces unilateral ceasefire on western front with effect from 20·00 hrs. on 17th December. **17** — 14-day Indo-Pak war ends. **18** — President Giri confers Nation's highest award, ' Bharat Ratna ' on Prime Minister Indira Gandhi. **30** — Dr. Vikram A. Sarabhai, Chairman of Atomic Energy Commission, dies at Kovalam, near Trivandrum.

1972

January 5 — India discontinues import of food grains from U.S.A. under P.L. 480. **10** — Sheikh Mujibur Rahman arrives in New Delhi after being freed by Pakistan Govt. **20** — State of Meghalaya and Union Territory of Arunachal Pradesh are inaugurated by Prime Minister Mrs. Gandhi. **21** — States of Manipur and Tripura and the Union Territory of Mizoram are inaugurated by Mrs. Indira Gandhi. **26** — A national memorial to 'Amar Jawan' installed at India Gate, New Delhi. **February 1** — Union Govt. constitutes International Airports Authority of India to manage the four international airports. **2** — Foundation-stone of Rs. 490 million outer harbour project laid at Visakhapatnam. **10** — India and Canada directly linked by new telephone service *via* India's Satellite earth station at Arvi near Pune. **11** — Union Govt. issues orders stopping payment of privy purses to former rulers from Jan. 1972. **March 5** — General election to State Assemblies begins. **17** — Prime Minister Indira Gandhi visits Dacca. **19** — India and Bangladesh sign 25-year treaty of friendship, co-operation and peace. **April 14** — Eighty-five Chambal ravine decoits lay down arms before Sarvodaya leader, Jayaprakash Narayan, in Jaura. **18** — P. V. Kane, an eminent indologist and recipient of 'Bharat Ratna', passes away. **29** — Foundation-stone for Rs. 450 million shipyard project at Cochin laid. **May 7** — Congress President D. Sanjivayya passes away in Delhi. **15** — Smt. Indira Gandhi presented with Mexican "Order of Law, Culture and Peace," highest award of Mexican Academy of International Law. **27** — A 'Nehru Capsule' containing chronicle in words and pictures of Nehru era, placed underground at Shantivana in Delhi to mark eighth death anniversary of Jawaharlal Nehru. **31** — Zambian President, Dr. Kenneth Kaunda, selected for 1970 Jawaharlal Nehru award for International Understanding. **June 2** — Union Govt. sets up space commission. **3** — I.N.S. Nilgiri, first indigenously built frigate commissioned. **28** — Indo-Pakistan summit talks between Prime Minister Indira Gandhi and President Z. A. Bhutto start at Simla. **July 2** — Prime Minister Indira Gandhi and President Z. A. Bhutto sign agreement at Simla committing India and Pakistan to abjure use of force in resolving differences. **15** — Bakshi Ghulam Mohammad, former Premier of Kashmir, passes away at Srinagar. **27** — State Assembly decides to rename the Mysore state as Karnataka. **28** — Charu Mazumdar, founder of Naxalite movement and C.P.I. (Marxist-Leninist), dies of heart attack in Calcutta hospital. **August 7** — First automatic letterpress printing machine manufactured by H.M.T. **12** — First rocket by Indian Space Research Organisation launched from Thumba Equatorial Rocket Launching Station. **15** — 25th Anniversary of Independence celebrated. **29** — Indo-Pak official level talks end in Delhi agreeing to delimitation of line of control. **September 6** — Ustad Allauddin Khan, 110-year-old *sarod* maestro, passes away. **October 2** — Bombay T.V. Centre commissioned. **4** — Prime Minister Indira Gandhi awarded the International Apostolic Humanitarian Award for 1972 instituted by the Philadelphia based Apostolic Church. **30** — Akali leader, Sant Fateh Singh, expires in Amritsar. **November 15** — President Giri presents 1969 Jawaharlal Nehru Award for International Understanding to Mother Teresa. **26** — A naval base INS *Dwaraka*, commissioned at Okha. **27** — Bangladesh President arrives in New Delhi on first State visit to India. **December 1** — India and Pakistan repatriate prisoners of war captured on western front during 1971 Indo-Pak war. **11** — India and Pakistan approve line of control in Jammu and Kashmir. **14** — India and Spain sign first trade and economic co-operation agreement. Hindustan Aeronautics Ltd., Bangalore produces first agricultural plane named 'Basant'. **25** — C. Rajagopalachari passes away in Madras. **28** — Ustad Hafiz Ali Khan, the *sarod* wizard, expires in New Delhi.

1973

January 2 — Chief of Army Staff Gen. S. H. F. J. Manekshaw is promoted to rank of Field Marshall. **27** — Rohini-560, India's biggest rocket, launched from Sriharikota in Andhra Pradesh. **30** — A time capsule devoted to work of Mahatma Gandhi embedded at Gandhi Smriti in New Delhi. **February 5** — Prime Minister Indira Gandhi presented with F.A.O. medal. **14** — First MIG 21-M. produced at Nasik Division of Hindustan Aeronautics, handed over to I.A.F. **16** — A. B. Nair, Editor & Mg. Dir., Free Press Journal passes away in Bombay. **March 6** — AIR and GRD Television sign three-year protocol on exchange of T.V. programmes. **15** — K. M. Cherian, Editor, Malayala Manorama passes away at Kolencherry, Kerala. **19** — Hemen Ganguly, Bengali poet expires at Ranchi. **25** — Oil struck at Sibsagar in Assam; Rashbehari Das, noted philosopher passes away at Midnapur. **April 1** — A Rs. 40 million programme to preserve Indian tiger is launched. **2** — Guru Kunjukurup, famous Kathakali dancer, passes away at Palghat. **13** — Balraj Sahni, Film star dies of heart attack, in Bombay. **15** — Mrs. Prabhawati Jaya Prakash Narayan passes away at Patna. **20** — Atom Power Station at Rawat-Bhata, near Kota, starts operation. **21** — Rameshwardas Birla, industrialist dies of heart-trouble in Bombay. **22** — Suresh Chandra Bhattacharya, Hindi writer passes away at Kanpur. **24** — Supreme Court upholds Parliament's right to amend Constitution including fundamental rights. **25** — Justice Ajit Nath Ray appointed Chief Justice of India. **29** — K. B. K. Das, Oriya poet expires at Bhubaneshwar. **May 9** — Hindi Novelist Bhagwati Prasad Bajpai passes away. **20** — Cochin Shipyard Ltd., and a Scottish firm sign agreement to build bulk carriers of 75,000 DWT in India. **24** — India secured contract to build railway line in Iraq. **31** — Union Minister for Steel and Mines, Mohan Kumaramangalam, killed in an aircrash in N. Delhi. **June 5** — M. S. Golwalkar, Rashtriya Swayamsevak Sangh Chief, passes away at Nagpur. **28** — M. M. Dhandapani Desikar, exponent of Karnataka music, passes away in Madras. **July 27** — South Bihar Express runs into Amritsar Mail near Madhupur station on the Eastern Railway. 20 people killed. **August 12** — Assam, Uttar Pradesh, Punjab and Jammu & Kashmir are ravaged by floods. **September 3** — Prime Minister Indira Gandhi leaves for Algiers to attend non-aligned nations' summit meeting; Lalji Pendsey, Founder-Member of C.P.I., expires in Bombay. **16** — Chegyal of Sikkim arrives in New Delhi. **29** — Armed men hijack bank cash van containing Rs. 600,000 killing the security guard in New Delhi. **October 1** — Guru Gopala Panikkar (97), Kathakali exponent, expires at Cochin. **12** — King Birendra of Nepal arrives in New Delhi. **21** — Delhi University and 48 colleges closed following student-police clash. **29** — Birth Centenary of Swami Ramatirtha observed. **November 1** — Mysore State is renamed as Karnataka. **6** — Delhi observes Bandh to protest against rising prices. **10** — World Congress on Productivity Science for Progress of mankind meets in Bombay. **11** — Dewan Chamanlal (81), Trade Unionist and Congress leader, expires in Delhi. **14** — Indipex — India International Philatelic Exhibition-1973, inaugurated in New Delhi. **17** — Mother of Aurobindo Ashram (95) expires at Pondicherry. **24** — Indian Airlines declares lock-out. **25** — Leonid Brezhnev, Chief of Soviet Communist Party, arrives in N. Delhi on official visit. **December 1** — Allahabad University closed following students' rampage and arson. **4** — Indian Railway Act (Amendment) Bill seeking to raise limit of compensation from Rs. 20,000 to Rs. 50,000 for loss of human life in accidents is passed. Dr. Gustav Husak, Chairman of Central Committee of Czech National Front arrives on official visit. **12** — Riots rock Maharashtra and Karnataka on boundary dispute. **18** — Muzaffar Ahmed (85), founder member of C.P.I. passes away. **27** — New Zealand Prime Minister, Norman Kirk, arrives in India. **28** — Four persons arrested in Bombay for plotting to throw bomb in Parliament.

1974

January 10 — The strike in Indian Airlines Corporation by its employees called off. **13** — Mrs. Gandhi lays foundation stone at Narora in Uttar Pradesh for the fourth nuclear power station; Life Insurance Corporation employees all over India go on indefinite strike. Gujarat student agitation takes violent turn leading to police firing, army moves in. **28** — Central Cabinet decides to rush foodgrains to Gujarat. **February 7** — Gujarat Governor dismisses four State Cabinet Ministers who earlier had sought Chief Minister's resignation. **9** — President's rule imposed in Gujarat following Chief Minister, Chimanbhai Patel's resignation. Assembly suspended. **10** — Army opens fire on food rioters in Ahmedabad. **16** — Army moved out of Ahmedabad city. **March 1** — Cong.-CPI alliance gets absolute majority in Orissa Assembly elections; Congress gets absolute majority in U.P. poll. **3** — Demand raised for dissolution of Gujarat Assembly, four killed in Gujarat in police firing. **18** — Trouble starts in Bihar and State-wide demonstrations; two killed, 23 injured in Patna on opening day of Assembly, price rise protest; the *Searchlight* office and printing press burnt by demonstrators. **19** — Trouble spreads to entire State of Bihar; 10 killed, 31 injured in police firing. **April 9** — Jayaprakash Narayan leads silent procession in support of student agitation against price rise in Patna. Bihar Assembly prorogued. **12** — Eight killed, 12 injured in Gaya police firing on student-led "Paralyse the Government" demonstration. **14** — Jayaprakash Narayan forms new organisation to "save democracy." **15** — National Co-ordination Committee of Railway Unions decides to launch nation-wide strike from May 8. **21** — 734 Pakistani prisoners of war repatriated through Wagah border post. **23** — Railway unions serve 14-day strike notice; Jayaprakash Narayan announces five-week agitation plan to press resignation of Ghafoor Ministry and dissolution of Assembly. **28** — Prime Minister Mrs. Indira Gandhi, leaves for Teheran. **30** — Lt.-General Niazi and the last batch of prisoners of war leave for Pakistan. **May 2** — George Fernandes and other Railway Union leaders arrested under the Maintenance of Internal

Security Act. **7** — 24 MLAs of Bihar Assembly resign and demand dissolution of Assembly. **8** — Railwaymen begin strike all over India. **18** — India carries out first underground nuclear explosion at Pokhran in Rajasthan. **23** — Canada suspends all nuclear aid to India. **26** — The President, V. V. Giri, appeals to railwaymen to end strike. **28** — 20-day-old Railway strike called off. George Fernandes and other leaders released; **June 2** — A massive demonstration staged against dissolution of Bihar Assembly in Patna. **5** — Supreme Court holds the view that dissolution of an Assembly is not a hurdle in election of President. **21** — Sikkim Assembly calls for integration of Sikkim's economic and social development in India's planning. **27** — Katchativu Island transferred to Sri Lanka, agreement signed in Delhi. **August 1** — Jayaprakash Narayan launches "no tax campaign" in Bihar. **2** — Air India pilots go on strike, services grounded. **September 7** — Constitution (35th Amendment) Bill to give representation to Sikkimese in Indian Parliament passed. **17** — Air India lays off 1,000 workers following pilots' strike and lockout; Ordinance promulgated to detain smugglers under MISA. **19** — India-USSR sign a protocol on economic and technical programme. **October 8** — V. K. Krishna Menon passes away. **15** — India and Pakistan resume telecommunication links which were snapped during the 1971 war. **28** — Air-India pilots call off strike. **November 1** — Mrs. Gandhi-J. P. Narayan meeting for 90 minutes ends in failure. Air-India lock-out ends. **4** — Jayaprakash Narayan and Sarvodaya workers injured as Police lathi charge a procession trying to gherao Secretariat and Ministers — thousands arrested. **15** — The Home Minister, Brahmananda Reddi, apologises in Lok Sabha for police using lathis against J. P. Narayan and causing injuries to him. **December 1** — Mrs. Sucheta Kripalani passes away. **7** — Indo-Pakistan trade embargo lifted. **10** — Morarji Desai cancels Satyagraha, accepts PM's offer to show CBI documents in the Licences Case. Lok Sabha return to comparative normalcy. **15** — India and Bangladesh reach agreement on rail link. **31** — India and Portugal re-establish diplomatic ties.

1975

January 6 — Jayaprakash Narayan rejects appeal to end agitation in Bihar, saying it is a people's movement. **11** — Oil struck in third Bombay High well. **20** — 36 killed in quake in Kinnaur Lahaul-Spiti in Himachal Pradesh. **26** — Silver jubilee of the Indian republic. **February 20** — Rs. 100 million said to be unearthed in unaccounted gold in Jaipur palaces. **March 2** — Mohan Dharia is sacked from the government. **3** — The Chogyal wants referendum in Sikkim. **6** — People's march to Parliament, J.P. presents charter to presiding officers — announces marches elsewhere in the country before April 6. **12** — Jayaprakash Narayan resigns from the Sarva Seva Sangh executive after Acharya Vinoba Bhave asks those participating in election work to leave the organisation, keeps primary membership. **18** — Jayaprakash Narayan leads "people's morcha" to the Bihar Vidhan Sabha. **20** — The Chief Justice of India, A. N. Ray, escapes attempt on life, hand-grenades thrown into his car. **25** — Congress high command allows Ghafoor to step down in Bihar. **April 15** — Sikkim in referendum votes for full Statehood in India and for the abolition of the institution of the Chogyal. **19** — India ushered into space age: satellite "Aryabhata" launched from a cosmodrome in Soviet Union. **23** — Lok Sabha passes Sikkim bill. **24** — Indian scientists take control of "Aryabhatta". **May 11** — The Sriharikota ground station resumes test commands to "Aryabhatta". **16** — Sikkim joins Indian Union as 22nd State. **20** — Oil found in fifth Bombay High well. **June 12** — Mrs. Gandhi's election set aside by Allahabad high court, court accepts two charges of corrupt practices, disqualification order stayed for 20 days. **13** — Non-CPI opposition MPs stage *dharna* in front of Rashtrapati Bhavan demanding the dismissal of the Prime Minister. **16** — Opposition leaders meet the President, end *dharna*. **18** — Janata front government comes into being in Gujarat with Bhabubhai Patel as Chief Minister. **20** — Supreme court agrees to special arrangements to deal with Prime Minister's appeal without automatic vacation of Allahabad high court stay order. **24** — Mr. Justice V. R. Krishna Iyer of the supreme court gives conditional stay of Allahabad high court judgment but says Mrs. Gandhi's rights as PM are not restricted. **25** — Opposition leaders announce nation-wide satyagraha from June 29 to force Mrs. Gandhi out of office. **26** — President declares emergency to meet "internal threat' to security, Jayaprakash Narayan, Morarji Desai and a number of opposition leaders and dissident Congressmen arrested. **26** — The Congress president expels Chandrashekhar, Mohan Dharia, Krishan Kant, Mrs. Lakshmikantamma, S. N. Mishra and Ramdhan from the party. **27** — Presidential order bars arrested persons from moving courts. **28** — I. K. Gujral shifted to planning ministry, V. C. Shukla takes over as Minister for Information and Broadcasting. **July 1** — Mrs. Gandhi announces 20-point economic programme; smugglers not to be provided with grounds of detention, new ordinance promulgated. **4** — RSS. Ananda Marg, Jamat-i-Islami and 23 other organisations banned; Sheikh Abdulla, Mirza Afzal Beg elected to the Kashmir Assembly. **6** — The National Conference of Jammu & Kashmir revived by Sheikh Abdullah. **24** — Parliament approves 38th constitution amendment. **25** — Parliament approves the conservation of foreign exchange and prevention of smuggling activities bill. **29** — Parliament approves MISA bill. **August 7** — The Lok Sabha passes constitution (39th amendment) bill and adjourns sine die. **8** — Constitution (39th amendment) bill, 1975, placing election of President, Vice-President, Prime Minister and Lok Sabha Speaker beyond the scrutiny of judiciary, approved by Parliament. The Rajya Sabha adopted bill as passed by the Lok Sabha; M. Dharia, Krishan Kant and Mrs. Lakshmikantamma expelled from the Congress for ten years. **9** — The Rajya Sabha adopts constitution (41st amendment) bill extending immunity from criminal and civil proceedings to the Prime Minister. **25** — Mrs. Indira Gandhi's poll case hearing begins in supreme court. **September 24** — India delinks rupee from pound sterling. **October 9** — Mrs. Gandhi's case; Supreme Court reserves judgment on constitution and poll law amendments. **10** — Oil struck in Bengal basin (second offshore well at 130 kms. east of Balasore). **24** — "Bonded" labour abolished by ordinance. **November 7** — PM's election upheld by supreme court. **12** — Supreme court dissolves bench which hold the basic structure hearings; Jayaprakash Narayan released on parole. **December 4** — Jayaprakash Narayan set free. **8** — The Government assumes special powers to prevent the publication of objectionable matter in the press, repeals immunity for press reports of Parliament and abolishes press council from New Year Day.

1976

January 1 : The 75th plenary session of the Congress concluded in Chandigarh **2** — Novelist Sailajananda Mukherjee expires at Calcutta; Writer, actor, editor and political thinker Kainikkara M. Padmanabha Pillai expires at Trivandrum. **4** — Socialist Party leader N. G. Goray announces the formation of the Janata Front comprising the Cong.O, the Jana Sangh, Bharatiya Lok Dal and Socialist Party. **8** — The President issues an order suspending the right of any person to move any court for the enforcement of the rights. **13** — Tabla player Ahmed Jan Thirakwa dies at Lucknow. **14** — Dr. Jal Patel (Hon. Physician to the President of India) expires in Bombay. **15** — A bill for the Government taking over Burmah Shell is introduced in the Lok Sabha by Minister K. D. Malaviya; Kannada Writer B. Shivamoorthy dies at Bangalore. **18** — Sanjay Gandhi gives five-point plan of action to Youth Congress; Punjabi leader Giani Gurumuk Singh Musafir passes away in New Delhi. **20** — A bill for the forfeiture of the illegally-acquired properties of smugglers and foreign exchange manipulators is passed by the Lok Sabha. **21** — Narayan Dutt Tiwari becomes U.P. Chief Minister. **22** — Industrialist Gujar Mal Modi expires at Bombay. **24** — Parliament approves the Maintenance of Internal Security (Amendment) Bill which replaces two MISA ordinances promulgated on the subject earlier, is criticised by Opposition speakers. **25** — The nation's highest honour, "Bharat Ratna", is conferred posthumously on K. Kamaraj. **28** — The Urban Land (Ceiling and Regulations) Bill is introduced in the Lok Sabha. **31** — Tamil Nadu comes under President's rule. **February 3** — Sarkaria commission appointed to probe charges against DMK ministers. **4** — Parliament approves new bonus law. **5** — The Lok Sabha passes the bill to prevent lay-offs, retrenchment and closure of industrial units. **6** — Film Director Ritwik Ghatak dies at Calcutta. **13** — Former Union Minister Moinul Haque Choudhury expires in New Delhi. **15** — Mrs. Gandhi criticises erstwhile DMK government. **22** — Mrs. Gandhi declares at a Bombay meeting, "We are not going to be a one-party state and abandon democracy, but we are also not going to allow the reactionary forces to sabotage the freedom and the unity of our people". **26** — Congress President Borooah [illegible] a [illegible]-member committee with former Defence Minister Swaran Singh as chairman to study and suggest amendments to the Constitution. **March 1** — The President issues two ordinances to facilitate the separation of accounts from audit both at the Union and State levels. **12** — Gujarat State is placed under President's rule. **26** — R. C. Chakravarthy, Governor of Haryana, expires in Calcutta. **27** — The ruling Congress Party gets two-thirds majority in the Rajya Sabha with the completion of the biennial elections all over India. **April 14** — Poet and author Prithvi Singh Nahar passes away in Calcutta. **15** — India and China decide to upgrade their diplomatic representation in each other's country to ambassadorial level. K. R. Narayanan is appointed India's ambassador to China. **16** — Government decides to raise the minimum age of marriage from 15 to 18 for girls and from 18 to 21 for boys through suitable legislation. **27** — Marathi playwrite, novelist and poet C. T. Khanolkar passes away in Bombay. **28**—Chief Justice A. N. Ray holds that Article 21 of the Constitution is the sole repository of rights of life and personal liberty against the State. Any claim to a writ of habeas corpus is enforcement of Article 21 and is, therefore, barred by the Presidential Order of June 27, 1975. **May 6** — Former Chief Justice of India, Koka Subba Rao passes away in Bangalore. **14** — India and Pakistan agree to re-establish full diplomatic relations at ambassadorial level, restoration of other severed links, like airlinks (including overflights) and road and rail links. **29** — The All-India Congress Committee modify the recommendations of the Swaran Singh Committee on Constitution regarding "fundamental obligations and duties" of the citizens. **June 9** — Lady Cowasji Jehangir dies in Bombay. **July 10** — At the ministerial conference of non-aligned countries India called for the setting up of a co-ordination council to make the press agencies pool operational as soon as possible. **12** — China names Chen Chao-Yuan as its ambassador to India. **17** — Educationist and industrialist Dr. A. Ramaswami Mudaliar expires in Madras. **August 2** — India strikes oil in Bombay High and Bassein. **9** — Mrs. Gandhi inaugurates a two-day national conference of block Youth Congress presidents in Delhi. **10** — Sanjay Gandhi presides over the convention of the Indian Youth Congress. **18** — Urdu Poet Jan Nisar Akhtar passes away in Bombay. **27** — Play-back singer Mukesh expires in Detroit (U.S.A.). **September 1** — Union Minister for Law H. R. Gokhale introduces a 59-clause Constitution amendment bill in Lok Sabha. **2** — Marathi Literateur & Jnanpith award winner V. S. Khandekar passes away at Miraj. **7** — Freedom-fighter Surendra Mohan Ghose expires in New Delhi. **10** — Indian Airlines Boeing with 79 passengers was hijacked to Lahore. **20** — The new Chinese ambassador, Chen Chao-Yuan, presents his credentials to the President. **25** — The National Development Council adopts the Fifth Plan providing for a public sector outlay of Rs. 393,300 million. **27** — Educationist Beram Shapurji Saklatvala expires in London. **October 5** — Educationist and mathematician Prof. P. L. Bhatnagar passes away at Allahabad. **10** — Union Minister for Law Gokhale rules out a referendum on the Constitution Amendment Bill. **12** — Jimmy Mehta (Mr. Tennis) expires in Bombay. **18** — Poet Laureate of Andhra Pradesh Viswanatha Satyanarayana passes away at Vijayawada. **19** — Magician Gogia Pasha dies at Dehra Dun. **20** — Punjab Pradesh Congress Committee and the State Congress Legislature Party unanimously demand "setting up of a constituent assembly to re-draft a people's constitution". **21** — Industrialist Tulsidas Kilachand expires at Atlanta (U.S.A.). **24** — Mrs. Gandhi says that Parliament is fully competent to make any amendment to the Constitution. **25** — Seven-day debate on the Constitution (Forty-Fourth) Amendment Bill begins in Lok Sabha. **28** — Sanjay Gandhi says in Bombay that elections have to be postponed till the country's economy is stabilised. **30** — The Government decides to extend the term of the present Lok Sabha by one year — till March 1978; Orthopaedic Surgeon Dr. V. L. Parmar dies in Bombay. **November 1** — The Lok Sabha approves all the 59 Clauses of the Constitution (44th Amendment) Bill after accepting some Government amendments. **5** — The Lok Sabha approves the Bill seeking to extend its term by another year. **8** — Mrs. Gandhi declares in the Rajya Sabha that there is little room for "authoritarianism in our system and method of working". **13** — Industrialist Lakshmipat Singhania dies in Calcutta. **17** — Sanjay Gandhi rules out the possibility of setting up a constituent assembly. **20** — Mrs. Gandhi addresses the Youth Congress convention in Gauhati. **22** — Mrs. Gandhi lashes out at the opposition parties at the AICC session for their lack of cooperation. **27** — Marathi novelist G. T. Madholkar dies at Nagpur. **28** — The working group on national Integration, suggests a seven-point action programme for communal harmony. **December 1** — Sanskrit scholar Kashinath Shastri Abhyankar is murdered along with five members of his family in Pune. **11** — Maharashtra Governor Ali Yavar Jung expires in Bombay. **16** — Orissa Chief Min. Mrs. Nandini Satpathy resigns, State comes under President's rule. **20** — Mrs. Gandhi reshuffles her cabinet. Hitendra Desai joins the cabinet. D. P. Chattopadhyaya promoted. **24** — President's rule is lifted in Gujarat. Madhavsinh Solanki forms new government. **30** — Film star Ragini passes away in Madras. **31** — Economist Dr. S. N. Agarwala dies in New Delhi.

EVENTS—1977

Indian

January 5 : The *Purna Kumbh*, began at Allahabad with 200,000 pilgrims trekking to the confluence of the Ganga, the Yamuna and the mythical Saraswati for a holy dip ; **12.** Chandrashekhar, member of the Rajya Sabha, and Mohan Dharia, member of the Lok Sabha, released. The detention orders against them were revoked ; **18.** 22 passengers killed and 79 injured when the engine of a passenger train rammed the rear of another train waiting at a signal at Mughalsarai ; President dissolves Lok Sabha ; Morarji Desai and L. K. Advani released ; **19.** Prakash Singh Badal released ; The Sarkaria Commission submits its report to Union Government against former Tamil Nadu Chief Minister, M. Karunanidhi ; **20.** Govt. relaxes rules of emergency and decides not to enforce press censorship ; Congress-O, Jan Sangh, Bharatiya Lok Dal and Socialist Party agree to form Janata Party ; **22.** Indo-Bangladesh ministerial-level talks on sharing Ganga waters end in New Delhi without agreement; **23.** Janata Party sets up National Committee with Morarji Desai as Chairman ; **28.** Mr. Justice Mirza Hameedullah Beg appointed Chief Justice of India.

February 2 : Jagjivan Ram, Union Minister for Agriculture and Irrigation, resigns from Cabinet and Congress Party ; H. N. Bahuguna, Mrs. Nandini Satpathy, K. R. Ganesh and two others expelled from Congress Party for six years ; **5.** Congress for Democracy formed with Jagjivan Ram as its president ; **7.** Socialist leader Madhu Limaye and BLD leader Raj Narain were released from detention ; **11.** President Fakhruddin Ali Ahmed dies ; B. D. Jatti sworn in as Acting President ; **12.** Mrs. Vijaya Raje Scindia was ordered to be released by the Madhya Pradesh Government ; **24.** 32 people were killed and 52 injured when the 9 Up Barauni-Kanpur Express met with an accident at Bachwara junction near Barauni, on the Samastipur division of the North Eastern Railway ; **25.** India's second earth station for satellite communication at Dehra Dun inaugurated. **27.** Liquor tragedy at Ahmedabad. 101 dead, 86 in hospital.

March 1 : T.V. comes to Jaipur ; Bihar orders withdrawal of MISA warrants pending against political leaders and workers ; **16.** Polling for Lok Sabha election starts in 300 parliamentary constituencies spread over 15 States and Union Territories ; **18.** Second round of polling begins ; **19.** Third round of polling, public holiday ; **20.** Fourth round of polling begins ; Mrs. Indira Gandhi in Rai Bareilly, Bansilal in Bhivani, Sanjay Gandhi in Amethi and others defeated ; **21.** Internal Emergency promulgated on June 25, 1975, withdrawn ; Press Censorship goes ; Kerala Ruling Front wins 111 out of 140 Assembly seats ; **22.** Janata gains absolute majority in Lok Sabha ; Mrs. Indira Gandhi resigns ; Ban on R.S.S. and 26 other organisations lifted ; R.S.S. chief released ; Y. B. Chavan elected leader of Congress Parliamentary Party ; **24.** Morarji Desai elected leader of Janata Party and sworn in as Prime Minister ; **25.** 19-Member Union Cabinet announced ; Sixth Lok Sabha session begins ; Kerala Ministry headed by K. Karunakaran sworn in ; **26.** Sanjiva Reddy elected speaker of the Lok Sabha ; Baroda Dynamite case withdrawn ; **27.** Government revokes external emergency promulgated on December 3, 1971 ; Jagjivan Ram joins Central Cabinet ; All India Anna DMK extends unconditional support to Janata Party Govt. ; **28.** Jagjivan Ram, H. N. Bahuguna, Raj Narain, George Fernandes and Brij Lal Verma sworn in as Cabinet ministers.

April 3 : Rs. 5,000 as compensation announced to victims of forced family planning operation during the Emergency; **7.** Home Minister announces decision to set up Commission of Enquiry to look into excesses, malpractices, and abuse of authority during the Emergency ; **11.** Janata Front Ministry headed by Babubhai Patel sworn in in Gujarat ; **12.** All Inter-state restriction on wheat movement abolished under the new ration policy ; **13.** D. K. Borooah resigns as Congress President ; **14.** Swaran Singh elected President of Congress Party ; Congress Working Committee expels Bansi Lal ; **16.** Vasantrao Patil replaces S. B. Chavan as Chief Minister in Maharashtra ; **18.** Home Minister Charan Singh asks Chief Ministers of nine States where Congress was rejected in Lok Sabha elections to advise their Governors to dissolve Assemblies and seek fresh mandate ; **19.** A 1-member Committee headed by Kuldip Nayar set up to examine functions of 'Samachar' and recommend future set up ; **27.** Kerala Chief Minister K. Karunakaran resigns and new Ministry headed by A. K. Antony sworn in ; Goa Assembly dissolved ; **29.** A seven-judge constitution bench of Supreme Court unanimously dismisses suits and injunction applications filed by some State Govts. against proposed dissolution of Assemblies ; **30.** Congress-ruled Bihar, Haryana, Himachal Pradesh, Madhya Pradesh, Orissa, Punjab, Rajasthan, Uttar Pradesh and West Bengal under President's rule ; Jayaprakash Narayan announces formation of a nation-wide organisation of Youth — Chhatra Yuva Sangharsha Vahini — wedded to the cause of total revolution ; 80 smugglers give a solemn assurance to put an end to smuggling before Jayaprakash Narayan ; Jayaprakash Narayan leaves for U.S.A. to undergo an operation.

May 1: Janata Party formally launched at its inaugural convention at Pragati Maidan, New Delhi ; Chandrashekhar chosen president of Janata Party ; **5.** Congress for Democracy at its New Delhi session decides to merge with Janata Party ; **6.** Two-day session of All India Congress Committee begins in New Delhi ; K. Brahmananda Reddi elected president ; **8.** Members of Sikkim Congress join Janata Party *en bloc* ; **9.** Congress ministry in Mizoram headed by Ch. Chunga resigns ; Mathew Commission, enquiring into circumstances of former Union Minister L. N. Mishra's death, submits report ; **11.** Election Commission recognises Janata Party as a national party ; **12.** Ships in Bombay port immobilised because of a strike by 3,500 Port Trust employees demanding "reversal of the excess of emergency" ; **13.** Manipur Ministry headed by R. K. Dorendra Singh resigns ; **16.** Manipur is placed under President's rule ; **18.** Kerala Chief Minister A. K. Antony appoints commission to go into Rajan case — the Kerala student who died in the police lock-up during the Emergency ; India and China decided to resume trade after a gap of nearly 15 years ; **19.** Justice J. C. Shah Commission to enquire into excess committed during the Emergency formally announced ; Govt. appoints Justice J. R. Vimadalal, retired judge of Andhra Pradesh High Court, to inquire into allegations against J. Vengal Rao, Chief Minister of Andhra Pradesh and some of his cabinet colleagues ; **20.** For the first time ever AIR and Doordarshan made available to all recognised political parties at national and state level to carry their message to the people ; **21.** K. K. Das appointed to collect facts for White Paper on misuse of mass media during the Emergency ; **23.** A. N. Grover, retired Supreme Court judge appointed to inquire into charges against Karnataka Chief Minister Devraj Urs and his cabinet colleagues ; **24.** Arunachal Congress Committee decided to merge with Janata Party *en bloc*; **28.** D. S. Mathur, retired Chief Justice of Allahabad High Court, appointed to inquire into affairs of Maruti concerns.

June 3 : Thirteen Harijans burnt alive by armed gang in Belchi village of Patna District ; **4.** In Goa Maharashtrawadi Gomantak Party wins 15 out of 30 Assembly seats ; **6.** Jagmohan Reddy, former judge of Supreme Court appointed to inquire into Nagarwala's attempt to withdraw illegally Rs. 6 million from State Bank of India's New Delhi Branch ; **7.** Prime Minister Morarji Desai leaves for London to attend Commonwealth Prime Ministers' Conference. A four-member Goa Ministry headed by Mrs. Shashikala Kakodkar sworn in ; **14.** Janata gains absolute majority in assembly election in Haryana, Himachal Pradesh and Rajasthan States, and in Delhi Metropolitan Council ; Akali-Janata-CPI-M alliance gets absolute majority in Punjab ; A five-member Indian team including three women and a sherpa, scaled the 7,756-metre Kamet. This was the first time that Kamet had been climbed by girls. The party, which reached the peak, included Miss [illegible], Miss Chandraprabha Aitwal, Miss Bharati Banerjee, and subedar Bhagat Singh. Dr. Meena Agarwal was the leader of the expedition sponsored by Indian Mountaineering Foundation ; **15.** Janata gets absolute majority in Uttar Pradesh, Madhya Pradesh and Orissa States ; The All India Anna DMK gets absolute majority in Tamil Nadu ; **16.** Janata Party gets absolute majority in Bihar and C.P.I.-M in West Bengal ; Prakash Singh Badal resigns from Union cabinet ; Surjit Singh Barnala appointed to Union Cabinet ; **20.** Prakash Singh Badal sworn in as Chief Minister of Punjab ; Andhra Pradesh Governor appoints Mr. Justice Vashishtha Bhargava, retired judge of Supreme Court to inquire into the killings of extremists in alleged encounters with state police ; **22.** Delhi edition of *Indian Express* officially closed down after 25 years of uninterrupted publication.

July 9. Sheikh Abdullah re-elected Chief Minister of Jammu & Kashmir ; **13.** Sanjiva Reddy files nomination papers for presidential election after resigning as Lok Sabha Speaker ; Government decides to discontinue national awards ; **18.** Justice Ashok Chandra Gupta replaces Justice D. S. Mathur who resigned from commission inquiring into Maruti group of concerns ; **20.** Education Minister announces in Rajya Sabha Government's decision to dig out time capsule buried at the Red Fort ; **21.** Neelam Sanjeeva Reddy elected unopposed as President of India ; K. S. Hegde unanimously elected Speaker of Lok Sabha ; **27.** Karnataka Governor dismisses K. H. Patil as Food Minister.

August 3. 1977 Ramon Magsaysay Award for Community leadership awarded to Ela Ramesh Bhatt, organiser and [illegible] self-employed women workers in Western India ; **11.** Coca Cola ready to wind up ; 13. 11-member group headed by B. G. Verghese, set up to study question of converting Akashvani and Doordarshan into autonomous corporations ; Samachar Committee headed by Kuldip Nayar submits report ; **15.** Madhya Pradesh Government decides to hold judicial inquiry into alleged misconduct and misuse of powers by two former Chief Ministers — P. C. Sethi and S. C. Shukla and their ministerial colleagues ; P. C. Sethi, former Union Minister, and Yashpal Kapoor, M. P. arrested on charges of criminal conspiracy ; **20.** Supreme Court dismisses election petition against Prime Minister Morarji Desai, filed by Jashwant Chauhan: **30.** V. M. Tarkunde selected for 1978 International Humanist Award for his contribution to the defence of democracy, human rights and human values in India.

September 2. Rajkumar Dorindra Singh, former Chief Minister of Manipur arrested under the prevention of Corruption Act ; **10.** Planning Commission decides to introduce rolling plan instead of five-year plans ; **17.** Mrs. Nandini Satpathy, former Chief Minister of Orissa, arrested and released on bail.

October 3: Mrs. Indira Gandhi arrested in New Delhi by CBI on charges of corruption. Also arrested, were K. D. Malaviya, H. R. Gokhale, D. P. Chattopadhyaya and P. C. Sethi ; **4.** Mrs. Indira Gandhi released unconditionally ; External Affairs Minister A. B. Vajpayee addresses U.N. General Assembly in Hindi for the first time ever ; **10.** Howrah-Delhi Deluxe Express rammed the rear of a stationary goods train at Naini (Allahabad) killing 53 passengers ; **11.** Government appoints study group on wages, incomes and prices under Chairmanship of S. Bhoothalingam, former Economic Affairs Secretary ; **15.** AICC session begins in New Delhi ; **21.** Prime Minister Morarji Desai leaves for Russia ; **29.** 400th anniversary of Amritsar city celebrated.

November 1: First world conference on Malayalam, Kerala culture and development inaugurated at Trivandrum by Kerala Governor Mrs. Jyoti Venkatachellum ; **3.** Tripura Ministry, headed by R. R. Gupta, resigns ; **4.** An Indian Air Force aircraft carrying Prime Minister, Morarji Desai, crash lands at Tatalgaon and kills five members of the crew ; 5. Tripura placed under President's Rule ; India and Bangladesh formally sign Farakka agreement in Dacca ; **12.** Cyclone kills over 500 in Thanjavur dist., Tamil Nadu ; **19.** Cyclone hits coastal Andhra Pradesh killing thousands of people ; **23.** Prakash Vir Shastri, member Rajya Sabha, and 19 others die in train mishap near Rewari.

December 3: Explosion in heavy water plant near Vadodara ; **8.** The silver jubilee time capsule dug out ; **16.** Bangladesh President Zia Ur-Rehman in Delhi for talks with Prime Minister Desai and others ; **18.** Mrs. Indira Gandhi resigns from Congress Working Committee ; **20.** Bihar Chief Minister Karpoori Thakur wins Assembly election from Phulparas Constituency ; Mr. Willy Brandt, chairman of the Socialist Democratic Party and former Chancellor of West Germany, arrived in New Delhi from Tokyo on a three-day visit to the country at the invitation of the Government of India.

Foreign

January 20 : Jimmy Carter sworn in President of United States.

February 14: Vazelin Djuranivic named Prime Minister, Yugoslavia ; **17.** Mohammed Daud sworn in President of Republic of Afghanistan.

March 5 : Severe earthquake in Bucharest. Thousands of people die ; **8.** Bhutto's People's Party wins landslide victory in Pakistan. Polls rigging alleged ; **11.** Black Terrorists free 134 hostages and surrender in Washington ; **15.** Big win for leftists in Poll-fighting in Laos and former King Savang Vathana and Crown Prince arrested ; **16.** Lebanese leader Kamal Jumblat assassinated in Beirut ; **21.** 60 dead in Iran earthquake. **24.** Callaghan's Labour Govt. survives no-trust motion in London ; **26.** Abortive coup in Thailand ; **27.** 563 die in Jet collision at a Spanish airport.

April 4 : Women's rallies in Pakistan demand fresh elections ; **8.** Earthquake wrecks a number of villages in central Iran. 57 people killed ; **9.** 16 die in Lahore riots as opposition launches protest movement against Bhutto regime ; **19.** Bloodshed in Pakistan as National Alliance steps up protest ; **21.** Major Gen. Zia-Ur Rehman sworn in new Bangladesh President.

May 4: U.S. President Carter outlines strategy to check nuclear evil; **7.** Protest marches against Bhutto rock Pakistani cities; **14.** Carter backs homeland for Palestinians; **20.** Sudan expels Soviet experts; **23.** Fanatical South Moluccan gunmen hold more than 100 children hostage in a primary school in Zuidlaren, Holland and hijack a train and grab more prisoners a few kilometres away; **25.** Soviet President Podgorny loses place in Politburo; **27.** Ruling Dutch coalition wins election; **28.** Fire engulfed one of the biggest night clubs in the United States and the police estimated the number of dead at more than 200 as 4,500 revellers dined and watched a star cabaret at Beverley Hills, Southgate, Kentucky.

June 2: U.S. cancels deal to supply war planes to Pakistan; a Pakistani High Court shocked the government by ruling that the Martial Law imposed by Prime Minister, Z. A. Bhutto, six weeks earlier was illegal under present Constitution; **8.** Prime Minister Morarji Desai addresses Commonwealth Prime Ministers' Conference; **16.** Leonid Brezhnev elected Soviet President; **26.** Sylvian Sandan the Swiss-born skier from Chamonix, France, decended on skis from the top of the 7,315-metre high Nun Peak in the Ladak Himalayas; **27.** Djibouti becomes independent from France.

July 2: 200 die in Karachi floods; five blind boys climb the 4,985-metre high Lenana peak of Mount Kenya; **5.** Coup in Pakistan. Gen. Zia-ul-Haque takes over. Bhutto deposed and arrested; **6.** Aid Consortium pledges $2 billion for India; **8.** United States successfully tests the neutron bomb; **11.** Two Russians hijack Aeroflot plane to Helsinki; **22.** Ruling (Sirimavo's) party routed in Sri Lanka poll — J. R. Jayawardene becomes premier; **29.** Bhutto released from jail.

August 1: Major sugar producing nations reach accord on guidelines on world Sugar pact in London; **27.** Rhodesian Prime Minister Ian Smith rejects Anglo-U.S. Peace Plan.

September 1: Rhodesia's Ian Smith wins election; **3.** Bhutto arrested on murder charge; **12.** Kirti Nidhi Bista becomes new Nepal Premier replacing Dr. Tulsi Giri; **20.** Lives of Indian diplomats in Australia threatened by Ananda Margis; **28.** Japanese plane hijacked over India lands in Dacca with 156 persons; Plane later lands in Algeria, hostages released.

October 2: Bangladesh Govt. crushes coup bid by rebels; over 230 killed; **12.** North Yemen President and brother assassinated; **13.** Lufthansa plane hijacked to Somalia; **18.** West German anti-guerrilla squad kills three hijackers and frees hostages in historic action in Mogadishu; **21.** Bloodless coup in Thailand; Prime Minister Morarji Desai arrives in Russia; **26.** Prime Minister Morarji Desai and Soviet President Leonid Brezhnev sign joint declaration in Moscow.

November 1: Indian official in London Commission stabbed; Sterling delinked from dollar; **2.** U.S. withdraws from ILO; **5.** U.S. President postpones visit to India scheduled for Nov. 27; **8.** B. P. Koirala returns to Nepal from U.S. and placed under arrest; Indian envoy in Hong Kong threatened; **11.** South African Govt. assumes emergency powers; **19.** President Sadat of Egypt makes historic visit to Israel; **29.** Indian diplomat in U.S. stabbed.

December 4: Hijacked Malaysian plane plunges into sea off Malaysia — 100 killed; **9.** Soares Govt. falls in Portugal; **10.** Prime Minister Fraser retains power in Australian elections; **20.** An earthquake hit Iran's Zarand region, killed 300 people and injured 500; **25.** Israeli Premier Begin and Egyptian Pres. Sadat confer in Ismailia.

DEATHS—1977

Indian

January 2: Congress leader and former Union Minister *Ajit Prasad Jain* (75) at New Delhi.

February 11: President *Fakhruddin Ali Ahmed* (71) at New Delhi; **12.** " Sahitya-Wachaspati " Hindi scholar *Pandit Hrishikesh Sharma* (87) at Indore; **21.** Marathi critic *R. S. Jog* (74) at Pune.

March 6: Industrialist *K. Gopalakrishna* (77) at Madras; Sanskrit Scholar *Pandit Rajeshwar Shastri* (78) at Varanasi; **8.** Urdu novelist and Hindi film writer *Krishan Chander* (62) at Bombay; **11.** Former Congress President *U. N. Dhebar* (72) at Rajkot; **14.** Executive director, International Monetary Fund and former secretary to the Dept. of Economic Affairs, *M. G. Kaul* (56), at Texas, U.S.A.; **18.** Vocalist *Siddheshwari Devi* (68) at New Delhi; **21.** Marxist leader *A. K. Gopalan* (73) at Trivandrum.

April 1: Gujarati writer and poet *Merubha Meghanand Gadhvi* (73) at Porbander; Tamil film producer and director *A. P. Nagarajan* (50) at Madras; **7.** Marathi poet and lyricist *Raja Badhe* (65) at New Delhi; **9.** Journalist and former M.P., *Hem Barua* (62) at Gauhati; **12.** Social worker *Mrs. Gool Shavaksha* (72) at Bombay; Hindi writer *Phanishwar Nath Renu* (56) at Patna; **22.** Film distributor *Shankar B. C.* (51) at Bombay.

May 12: President of IENS and Editor of " Matrubhumi " of Kerala, *Vadakkekara Madhavan Nair* (81) at Calicut; **28.** National Professor *Dr. Suniti Kumar Chatterjee* (85) at Calcutta.

June 2: Former Union Minister for Rehabilitation and Commerce *K. B. Neogy* (89) at Calcutta; **5.** Former Deputy Commissioner of Police, Greater Bombay, *Basil C. Kane* (61) at London; **21.** Ahmedabad Industrialist *Shantilal Mangaldas* (76) at Bombay; **24.** Marathi drama director and painter *Vasant Godse* (52) at Bombay.

July 3: Managing editor of " The Hindu " *G. Narasimhan* (62) at Madras.

August 22: Film actress *Vimi* (late 30s) at Bombay; **27.** Industrialist *Harikishandas Aggarwal* (65) at Bombay.

September 14: Carnatic musician *N. Gopala Iyer* (56) at New Delhi; **16.** Former Chief Justice of India *Sudhi Ranjan Das* (83) at Calcutta; Exponent of Hindustani classical music *Kesarbai Kerkar* (86) at Bombay; **17.** President, All India Buddhist Mahasabha, *Y. B.* alias *Bhaiyasaheb Ambedkar* at Bombay; **26.** Exponent of Indian dancing *Uday Shankar* (76) at Calcutta.

October 27: Industrialist *Shanti Prasad Jain* (66) at New Delhi.

November 10: Tamil writer *L. Ramanathan* (51) popularly known as " Tamilvanan ", at Madras; **15.** Originator of the Hare Krishna Hare Rama movement *Swami Bhaktivedanta Prabhupada* (81) at Vrindaban; **23.** Member of the Rajya Sabha, *Prakash Vir Shastri* killed when the Delhi-bound Ahmedabad Mail was derailed by sabotage near Rewari.

December 1 : Vice-chancellor of S.N.D.T. Women's University *Lady Premlila Thackersey* (83) at Bombay ; **9.** Well-known painter of Gujarat *Ravishankar Raval* (86) at Ahmedabad ; **14.** Marathi writer *G. D. Madgulkar* (58) at Pune ; **25.** Journalist and ex-M.P. *A. D. Mani* (67) at Nagpur.

Foreign

January 14 : Former British Prime Minister *Sir Anthony Eden* (later Lord Avon) (79) at his Southern England home.

February 9 : Jordan's *Queen Alia* (28) killed in a plane crash near Amman ; **19.** British Foreign Secretary *Antony Crosland* (59) at London.

March 3 : Former Prime Minister of Northern Ireland, *Lord Faulkner* (57) in a horse-riding accident, at Belfast ; **16.** Lebanese leftist leader *Kamal Jumblatt* (58) assassinated 50 kms. south east of Beirut.

April 2 : *Viscount Radcliffe* (78) who played a major part in the partition of the Indian sub-continent as chairman of the Punjab and Bengal Boundry Commission in 1947, at Warwick, England ; **3.** Former Australian captain and Test century-maker *Jack Ryder* (87) at Melbourne.

May 5 : Former West German Chancellor *Ludwig Erhard* (80) at Bonn ; **10.** American actress of the forties *Joan Crawford* (70) at New York.

June 3 : Italian film director *Roberto Rossellini* (71) at Rome ; **16.** German-born rocket expert *Dr. Wernher Von Braun* (65) who masterminded America's space missions, at Washington.

July 2 : Russian born American author of novel "Lolita", *Vladimir Nabokov* (78) at Montreaux, France ; **27.** *Prince Charles of Luxembourg* (50), on his estate in Italy.

August 1 : America's spy *Frances Gary Powers* of U-2 fame, at a park in Enciro, California when his TV Station helicopter crashed ; **3.** President of Cyprus *Archbishop Makarios* (63) at Nicosia ; **17.** America's first rock-and-roll star *Elvis Presley* (42) at Memphis ; **20.** American Comedian *Groucho Marx* (82) at Los Angeles.

September 4 : Economist *Dr. E. F. Schumacher* (66) at Geneva, Switzerland ; **6.** American actor-comedian *Zero Mostel* (62) at Philadelphia ; **13.** Orchestra Conductor *Leopold Stokowski* (90) at London ; **16.** Opera Soprano *Maria Callas* (53) at Paris.

October 14 : American Crooner *Bing Crosby* (73) on a golfcourse at Madrid, Spain ; **27.** American mystery writer *James Cain* (85) at University Park, Maryland.

December 12. *Baroness Spencer-Churchill* (93) widow of Sir Winston Churchill, at London ; **25.** Famous actor and comedian *Charles Chaplin* (88) at Vevey, Switzerland ; **31.** The Emir of Kuwait, *Sheikh Sabah-al-Salim al-Sabah* (64) at Kuwait.

SOCIAL WELFARE

Allocation of Funds — Fourth Plan outlay on social welfare was Rs. 889·4 million and the Fifth Plan outlay was as follows (Rs. in million): Family and child welfare 32 + 5 ; Integrated child development services 1,400 ; Functional literacy 80 ; Hostels for working women 50 ; National Institute of Handicapped 36·50 ; Scholarships, training, research, grant-in-aid to voluntary organisations 53·50 ; Social work education and training 67 ; Grants-in-aid to voluntary organisations by Central Social Welfare Board 80 ; Grants-in-aid to voluntary organisations etc. 35 ; Total — (Centre and centrally-sponsored) 2,000 ; State and Union Territories 290 ; Grand total 2,290·00.

The Central Social Welfare Board (Jeevan Deep Building, Parliament Street, New Delhi-110001). The Board concentrates on the needs and requirements of the various social welfare organisations, and the programmes of such organisations. It co-ordinates the programmes of various Central Ministries and State Departments. The activities of the CSWB are decentralised by constituting the Social Welfare Advisory Boards in all States and Union Territories. The Board also does the work of promoting financial help to deserving social welfare organisations.

The Central Bureau of Correctional Services (Block 1, Wing 7, Ground Floor, R. K. Puram, New Delhi-110022). Collects and collates all India crime statistics, formulates policies for crime prevention, promotes research, studies, surveys, experiments and training programmes.

Social Welfare and Rehabilitation Directorate (Jamnagar House Hutments, New Delhi-110011). Set up to tackle problems of destitute and deserted women of Delhi and war widows. The scheme for setting up Grih Kalyan Kendras was started in 1958 for the benefit of the families of low income government servants.

Health and Family Planning — In Public Health, the accent now is on providing every village (with 1,000 people) with the services of a village level health worker. A composite Rural Health Service Scheme was launched on October 2, 1977. The approach to the Family Planning Programme has been made optional so as to fall in line with the Government's respect for individual liberty and human dignity.

This scheme ensures that trained rural health workers are available at the village level to assist and advise on health care and provide simple medical help. In the next five years there will be a village level health worker for every 1,000 people.

Indigenous systems of medicine like Ayurvedic, Unani and Homoeopathic are encouraged. And steps are being taken to reorient medical education to make it more relevant to India's specific needs.

Programmes for maladjusted groups — Under various social legislations social defence measures exist. They include protection and care of juvenile delinquents and neglected children, suppression of immoral traffic in women and girls, scheme for short-stay homes for rehabilitation of women facing moral danger, penalising vagrants, vagabonds beggars and kidnappers.

National Institute of Social Defence, Department of Social Welfare, West Block, 1, Wing 7, Ground floor, Ramkrishnapuram, New Delhi 110022.

(i) Reviews, develops and evaluates the policies and programmes in the field of social defence ; (ii) Advises the Central and State Governments/Union Territory Administrations on social defence problems and provides technical services for raising the standards of correctional programmes ; and (iii) Compiles national statistics, undertakes research, conducts personnel training, disseminates scientific knowledge and promotes voluntary efforts in the field of social defence.

The Association for Social Health in India (4, Deendayal Upadhyaya Marg, New Delhi 110001). Set up to eradicate prostitution and other evils related to it.

Programmes for physically handicapped — Special emphasis is being given to the placement of the physically handicapped. The Government have decided to reserve 3 per cent vacancies for the physically handicapped in Group C and D posts. Andhra Pradesh, Gujarat, Jammu and Kashmir, Karnataka, Rajasthan, West Bengal Tripura and Uttar Pradesh have also made such reservations for the handicapped. There are 17 special Employment Exchanges for the Physically Handicapped.

State Board for the Handicapped, Directorate of Employment & Training, Chepauk, Madras 600005.

The **Central Institute of Research and Training in Public Co-operation** established in 1966 promotes voluntary action, studies activities of voluntary agencies, conducts research in social problems and trains workers. Funds for research in social work are available from the Indian Council of Social Science Research, New Delhi, Department of Social Welfare as well as other foreign agencies such as the Social Rehabilitation Service of the Department of Health, Education and Welfare, U.S.A.

Welfare of Backward Classes and Tribals — There are eleven research institutions working in the field of tribal research. As per 1971 census, there were nearly 80 million persons belonging to scheduled castes, and about 38 million described as scheduled tribes in India. Over one-fifth of India's population comprises the scheduled castes, scheduled tribes, and other backward classes. The Constitution provides special safeguards and certain protective measures for these people. These include (*a*) The abolition of untouchability and the forbidding of its practice in any form (*b*) Reservation of posts in public services (*c*) Special representation in Parliament and the State legislatures (*d*) Special provision of funds.

Minorities Commission : On January 22, 1977 the Minorities Commission was set up with M. R. A. Ansari as Chairman to look into the complaint regarding deprivation of rights and safeguards provided in the Constitution for linguistic and religious minorities and to make recommendations for their effective implementation.

The important **voluntary organisations** working for the welfare of the **Scheduled castes and tribes** are: All-India Harijan Sewak Sangh, Delhi ; Bharatiya Depressed Classes League, New Delhi ; Iswar Saran Ashram, Allahabad ; Indian Red Cross Society, New Delhi ; Hind Sweepers Sewak Sangh, New Delhi and Ramakrishna Mission, Narendrapur, West Bengal ; Bharatiya Adimjati Sewak Sangh, New Delhi ; Indian Council for Child Welfare, New Delhi ; Andhra Pradesh and Andhra Rashtra Adimjati Sewak Sangh ; Ramakrishna Missions at Cherapunji, Ranchi, Puri, Silchar, Along and Shillong ; Thakkar Bapa Ashram, Nimakhandi, Orissa ; The Servants of India Society, Pune ; All India Backward Classes Federation, Delhi ; Bharatiya Ghumanti Jan (Khanabadosh) Sewak Sangh, Delhi.

Research Institutions : *Tribal Cultural Research & Training Institute*, Hyderabad, Andhra Pradesh ; *Tribal Research Institute*, Shillong, Assam ; *Tribal Research Institute*, Ranchi, Bihar ; *Tribal Research & Training Centre*, Gujarat Vidyapeeth, Ahmedabad, Gujarat ; *Tribal Research & Development Institute*, Bhopal, Madhya Pradesh ; *The Tribal Research Institute*, Pune, Maharashtra ; *Tribal Research Bureau*, Bhubaneswar, Orissa ; *The Tribal Research & Training Institute*, Udaipur, Rajasthan ; *Cultural Research Institute*, Calcutta, West Bengal.

Schools of Social Work*: Institute of Social Sciences, Univ. of Agra, **Agra** 282001 ; Dept. of Social Work, Gujarat Vidyapith, **Ahmedabad** 380001 ; Dept. of Social Work, Ahmednagar Coll., **Ahmednagar** 414001 ; Post-Graduate Institute of Social Work, **Alwaye** 683104 ; Dept. of Social Work, Bangalore Univ., **Bangalore** 560056 ; Post-Graduate Dept. of Social Work, D. N. R. Coll., **Bhimavaram** 534201 ; Bhopal School of Social Sciences, **Bhopal** 462001 ; College of Social Work, **Bombay** 400012 ; Tata Institute of Social Sciences, Sion-Trombay Rd., Deonar, **Bombay** 400088 ; Indian Institute of Social Welfare and Business Management, College Square West, **Calcutta** 700007 ; Dept. of Social Work, P. S. G. Arts Coll., **Coimbatore** 641004 ; Dept. of Social Work, Karnatak Univ., **Dharwar** 580003; Delhi School of Social Work, **Delhi** 110007 ; College of Social Work, **Hyderabad** 500001 ; School of Social Work, **Indore** 452001 ; Dept. of Social Work, Lucknow Univ., **Lucknow** 226001 ; Dept. of Social Work, Stella Mary's College, Cathedral Rd., **Madras** 600006; Madras School of Social Work, Casa Major Rd., **Madras** 600008 ; Loyola College, Dept. of Social Work, **Madras** 600034 ; Instt. of Social Work, Alagarkoil Rd., **Madurai** 625002 ; School of Social Work, **Mangalore** 575001 ; Matru Seva Sangh's Instt. of Social Work, North Ambazari Rd., **Nagpur** 440010 ; National Instt. of Social Work, Hanuman Nagar, **Nagpur** 440003 ; Tirpude Coll. of Social Work, **Nagpur** 440001 ; Dept. of Social Works, Jamia Milia, Jamia Nagar, **New Delhi** 110025 ; Karve Institute of Social Service, Hillside, Karvenagar, **Pune** 411029; Dept. of Social Work, Visva Bharati, **Shantiniketan** 731235 ; Dept. of Social Work, Solapur Coll., **Solapur** 413001 ; Loyola College of Social Sciences, **Trivandrum** 695001 ; Udaipur School of Social Work, Rajasthan Vidyapeeth, **Udaipur** 313001 ; School of Social Work, M. S. Univ. of Baroda, Fatehgunj, **Vadodara** 390002 ; Institute of Social Sciences, Kashi Vidyapith, **Varanasi** 221001 ; School of Social Work, Kashi Vidyapith, **Varanasi** 221001 ; Dept. of Social Work, Andhra Univ., **Waltair** 530004.

* There are now 34 schools of which 27 offer Master's degree courses, 10 Bachelor's degree courses, M. Phil. courses and 11 Doctoral courses.

VOLUNTARY AGENCIES

Child Welfare : Balkan-ji-Bari, Juhu Rd., Santa Cruz (West), **Bombay** 400054 ; Sneh Sadan, Andheri East, **Bombay** 400060 ; Community Aid and Sponsorship Programme, 175, Dr. D. Naoroji Rd., **Bombay** 400001 ; Shishu Niketan, 12-B, Dr. A. Besant Rd., **Bombay** 400018 ; Indian Council for Child Education, Sumanas, 39, Edward Elliot Rd., **Madras** 600004 ; Indian Council for Child Welfare, 4, Rouse Ave., **New Delhi** 110001.

Youth Welfare : Y.M.C.A., 5, Russel St., **Calcutta** 700016 ; Y.W.C.A., Parliament St., **New Delhi** 110001 ; Bharat Scouts and Guides Association, Regal Bldg., Parliament St., **New Delhi** 110001 ; Bharat Sevak Samaj, 27-A, Theatre Communication Bldgs., Connaught Place, **New Delhi** 110001 ; International Youth Centre & Indian Assembly of Youth, Circular Road, Chanakyapuri, **New Delhi** 110021 : Youth Hostels Association, 2, East Park Rd., **New Delhi** 110005 ; All India Scouts Association, 7, Jungpura, Mathura Rd., **New Delhi** 110014 ; Dnyana Probodhince, **Pune.**

Women's and Family Welfare : Shradhanand Mahilashram, Shradhanand Rd., Matunga, **Bombay** 400019; All India Women's Council C/o Family Planning Association of India, Metropolitan House, Dr. D. Naoroji Rd., **Bombay** 400001 ; Family Service Centre, Eucharistic Congress Bldg., 5, Convent Street, Fort, **Bombay** 400001; National Council of Women in India, Town Hall, **Bombay** 400001 ; Bombay Mothers and Children Welfare Society, 10, B. D. D. Chawl, Delisle Rd., **Bombay** 400011 ; Kasturba Gandhi National Memorial Trust, Kasturba Gram, P.O. **Indore** (Madhya Pradesh).

Health : Hind Kusht Nivaran Sangh, Cross Rd., **New Delhi**: Indian Medical Association, Indraprastha Marg, **New Delhi** 110001 ; Tuberculosis Association of India, 20, Red Cross Rd., **New Delhi** 110002 ; Indian Red Cross Society, 20, Red Cross Rd., **New Delhi** 110002 ; All India Cancer Prevention Society, Tata Memorial Hospital, Parel, **Bombay** 400012 ; Akhil Bharat Sharirik Sikshan Maha-Mandal, Tilak Rd., **Nagpur** 440001 ; Gandhi Memorial Leprosy Foundation (GMLF), Hindinagar, **Wardha** [illegible]; National Leprosy Organisation (NLO), Hindinagar, **Wardha** 442001.

Rural Welfare : Khadi & Village Industries Commission, Irla Rd., Vile Parle, **Bombay** ; Association of Voluntary Agencies for Rural Development, A-1, Kailash Colony, **New Delhi** 110048 ; Bharatiya Grameen Mahila Sangh, 9/104, Jamnagar Hutments, Block II, Mansingh Rd., **New Delhi** 110011 ; Gramayan 'Manus Karyalaya,' near Nag Nath Park, **Pune.**

General Social Welfare : All India Seva Samiti, Seva Samiti Bldg., **Allahabad** 211001 ; Ramakrishna Mission, **Belur** (Howrah Dist.) ; Community Aid & Sponsorship Programme (CASP), 175, Dr. D. Naoroji Rd., **Bombay** 400001 ; Indian Council of Social Welfare, 175, Dr. D. Naoroji Rd., **Bombay** 400001 ; Salvation Army, Morland Rd., **Bombay** 400008 ; Maharashtra State Social Welfare Advisory Board, Room No. 37 (Fifth Floor), Mehta Chambers, 127-A, Kalyan St., Masjid, **Bombay** 400009 ; Friends Service Unit, 1, Upperwood St., **Calcutta** 700016 ; Central Bureau of Correctional Services, Block 1, Wing 7, Ramakrishnapuram, **New Delhi** 110022 ; Gandhi Memorial Fund, 5, Mansingh Rd., **New Delhi** ; Servants of India Society, **Pune** 411004.

Spastic Education : Spastics Society (Centre for Special Education), near Afghan Church, Upper Colaba, **Bombay** 400005.

International Welfare Agencies in India : International Council on Welfare, Regional Office for South East Asia and Western Pacific, 175, Dr. D. Naoroji Rd., **Bombay** 400001 ; Ford Foundation, 32, Ferozeshah Rd., **New Delhi** 110001 ; World Health Organisation S.E.A., Office, Indraprastha Estate, Ring Rd., **New Delhi** 110001; Rockefeller Foundation, 20/39, Diplomatic Enclave, Kantilya Marg, **New Delhi** 110021 ; International Labour Organisation, Indian Branch, 7, Sardar Patel Marg, **New Delhi** 110001 ; International Union for Child Welfare Consultant for Far East Asia, 4, Rose Ave., **New Delhi** 110001 ; United Nations Children's Fund, UNICEF House, 11, Jor Bagh, **New Delhi** 110003; United Nations Educational, Scientific and Cultural Organisation, 40, B. Lodi Estate, **New Delhi** 110003 ; Food and Agriculture Organisation, UNO, 1, Ring Rd., Kilokri, **New Delhi** 110014; Cleveland International Programme for Youth Leaders and Social Workers Inc., 12, Hailey Rd., **New Delhi** 110001 ; The American Peace Corps in Delhi, 5, Ring Rd., Kilokri, **New Delhi** 110014.

Royal Commonwealth Society for the Blind, Jaldarshan, Napean Sea Road, **Bombay** 400006 ; Catholic Relief Services, [illegible] Street, **Bombay** [illegible] ; C.A.R.E. Miami Apartments, Bhulabhai Desai Road, **Bombay** 400026 ; Christian Action for Social Development, Relist Club, **Bombay** ; Community Aid Abroad, Australia (India), III-A-4, Lajpat Nagar, **New Delhi** 110024 ; International Youth Centre and Indian Assembly of Youth, Circular Road, **New Delhi** ; Terre Des Homes, C/o Shri Adi Patel, 3, Victoria Road, **Pune** 411001.

THE SALVATION ARMY

For administrative purposes the country is divided into 5 territories each under a territorial commander.

The work done is evangelical, social, medical and educational. The five territories are :

Madras and Andhra : Territorial Headquarters, The Salvation Army, 1C, Ritherdon Rd., P.O. 453, Vepery, Madras 600007.

North Eastern India : Territorial Headquarters, The Salvation Army, 37, Lenin Sarani, Calcutta 700013.

South Eastern India : Territorial Headquarters, The Salvation Army, Vetturnimadam, Nagercoil 629003.

South Western India : Territorial Headquarters, The Salvation Army, Kowdiyar, Trivandrum 695003.

Western India : Territorial Headquarters, The Salvation Army, Sheikh Hafizuddin Marg, P.O. Box 4510, Byculla, Bombay 400008.

Home for Aged Freedom Fighters : Baba Kharak Singh Marg, **New Delhi** 110001.

Admission to the home is restricted to persons, who are in receipt of pension granted under the Central Freedom Fighters Pension Scheme, 1972. To be eligible for admission, a freedom fighter should not be less than 65 years of age and his annual income from all sources, including pension, should not exceed Rs. 5,000 per annum. Persons suffering from infectious or contagious diseases or persons with dependents will not be admitted. Admission, for the present, is restricted to men only.

Please see Chapter on **State Associations** for State-wise list of " Social and Child Welfare Associations."

INSTITUTIONS FOR THE HANDICAPPED

INSTITUTIONS FOR THE BLIND

ANDHRA PRADESH

Andhra Blind Model High School, Royapet, Narsapur 534276 ; **Disabled Blind Children's Home & School,** Anandanasamaj Bldg., Amravati Rd., Guntur 522002 ; **Govt. High School for the Blind,** Basanthi Haveli, Salar Jung Estate, Hyderabad 500002 ; **Govt. School for the Blind,** Cuddapah 516001 ; **Jeevana Jyothi,** C.S.I. Vidyanagar, Via Kondapalli, Post Penapaka 521228 ; **Lutheran School for the Blind,** [illegible] ; **Rehabilitation Centre for the Blind,** Praja Seva Samiti, P.S.S. Bldgs., Pedakkani, Guntur 522509 ; **Sudha Memorial Disabled & Blind Children's Home & School,** Brindavan Municipal Colony, Arundelpet, Guntur 522002 ; **Vocational Rehabilitation Centre for the**

Physically Handicapped, C.T.I., Vidyanagar, Hyderabad 500007.

ASSAM

All Assam Federation of the Blind, C/o Paul & Co., Dhaccapatty, Nowgong 782001 ; **Assam Andha-Sishu Seva Samiti,** P.O. Bihupuria 784161 ; **Assam Blind Assc.,** Old Circuit Home Road, Jorhat 785001 ; **Blind School attached to the Sreemantha Shankar Mission,** P.O. Nowgong 782001 ; **Janamangal Adarsha Andha Bidyalaya,** P.O. Moranhat 785640 ; **Jorhat Blind Institution,** Na-ali, Jorhat 785002 ; **National Assocn. for the Blind** (Assam State Branch), Shreemanta Shankar Mission, Nowgong 782001 ; **Society for the Welfare of the Blind,** Gauhati 781001.

BIHAR

Bihar Rajya Netrahin Kalyan Sangh, Park Rd., Kadam Kuan, Patna 800003 ; **Blind Relief Society,** P.O. Patherdih 826001 ; **Blind School,** Home for the Homeless, Khabra Rd., Muzaffarpur 842001 ; **Govt. School for the Blind,** Patna 800001 ; **Netraheen Chhatra Vidyalaya,** Mundichak, Bhagalpur 812001 ; **Prema Devi Blind School,** Topkhana Bazaar, Monghyr 811201 ; **Shree Kameshwari Priya Poor Home,** Darbhanga 846004 ; **Shri Asdinath School for the Blind,** Chandra Bhawan, Mahajantoli No. 1, Arrah 802301 ; **St. Michael's School for the Blind,** P.O. Box No. 1, Ranchi 834001 ; **Sur Vihar** (Home for Blind Boys), C/o Tata Iron & Steel Company Ltd., Jamshedpur 831001.

CHANDIGARH

Society for the Care of the Blind, 114, Sector 8-A, Chandigarh 160017.

DELHI

All India Blind Relief Society, F-Block, 2nd Lajpatnagar, New Delhi 110024 ; **Bharat Blind School,** 510-A, Circular Rd., Shahdara, Delhi 110032 ; **Bharatiya Educ. Cultural Welfare Society for the Blind,** Telewada, Shahdara, Delhi 110032 ; **Blind Relief Assc.,** Kitchlew Marg, New Delhi 110003; **Blind Social Welfare Society,** 96, Panchkuin Rd., New Delhi 110001 ; **Delhi Public Library** (Braille Section), 425, Lakshmibai Nagar, New Delhi 110005 ; **Government School for the Blind Boys,** Coronation Rd., Kingsway Camp, Delhi 110009; **Institution for the Blind,** Panchkuin Rd., Delhi 110009 ; **National Asscn. for the Blind** (Delhi State Branch), 12, Nizamuddin East, New Delhi 110013 ; **National Federation of the Blind,** C-20 Model Town, Delhi 110009 ; **National Society for the Prevention of Blindness,** C/o Department of Ophthalmology, All India Institute of Medical Science, Ansari Nagar, New Delhi 110016 ; **Popular Institution for the Blind,** Shiv Mandir Marg, Lajpat Nagar, New Delhi 110024 ; **Rashtriya Virja Nand Andh Kanya Vidyalaya,** New Rajinder Nagar, Shankar Rd., New Delhi 110060 ; **Training & Rehabilitation Centre for the Blind,** C-20, Model Town, Delhi 110009 ; **Vocational Rehabilitation Centre for the Physically Handicapped,** C/o I.T.I. Campus, Pusa, New Delhi 110012.

GUJARAT

Adult Training Centre for the Blind, Near ATIRA, Vastrapur Rd., Ahmedabad 380015 ; **Ambaben Maganlal Andhjanshala,** Athwa Lines, Surat 395001 ; **Andh Abhudaya Mandal,** Pushpa Kunj, Ghoga Gate, Bhavnagar 364001 ; **Andh Kalyan Kendra,** C/o K. J. Gandhi, 20, Navrup Colony, Near Shantinagar, Ahmedabad 380013 ; **Andh Kanya Prakash Grih** (Light House for Blind Girls), Memnagar, Navrangpura, Ahmedabad 380009; **Andh Sarvodaya Mandal,** Dhebar Rd., Rajkot 360002 ; **Andhjan Madhyamik Shala,** Keshavnagar, Sabarmati, Ahmedabad 380005 ; **Andhjan Pushthakalaya,** C/o Kanjibhai Jamnadas Popat, Anand Bhuvan, Uganda Rd., Porbander 360575 ; **Baroda Asscn. for the Blind,** Mahajan Lane, Raopura, Vadodara 390001 ; **Blind Men's Asscn.,** Near ATIRA, Vastrapur Rd., Ahmedabad 380015; **Blind Men's Welfare Asscn.,** Thakarshi Tanti Bldg., 5, Manohar Plot, Rajkot 360002 ; **Blind Physiotherapist Asscn.,** Physiotherapy Clinic, Opp. Jagannath Mandir, Rajkot 360001 ; **Blind Welfare Asscn.,** Bhuj, Kutch 370001 ; **Blind Welfare Council,** 50-B, Middle Class Society, Fatehgunj, Vadodara 390002 ; **Govt. Blind School,** Sadar Camp, Bhuj 370001 ; **Govt. School for the Blind,** Madan Zampa Rd., Vadodara 390002 ; **Gujarat Blind Relief & Health Asscn.,** P.O. Bochasan 388140, Kheda Dist. ; **Gujarat Rajya Nayanjyot Raksha Samiti,** Opp. R. C. High School, Dr. Tankaria Rd., Ahmedabad 380001 ; **Jyoti Trust,** Vadnagar, Mehsana Dt. 384355 ; **Krishnakumarsinhji School & Home for the Blind,** College Rd., Takhteshwar Plot, Bhavnagar 364001 ; **M. P. Shah Govt. School for the Blind,** Kalyan Gram, Mahatma Gandhi Rd., Junagadh 362001 ; **M. T. Doshi Andh Vidyalaya,** Near Kasturba Society, Surendranagar 363001 ; **Mohanbahen Bhavanilal Jain Andh Jan Vidyalaya,** Ratanlal Bhawan, Baharpura Padav, Dohad Dist., Panchmahal 389151 ; **National Asscn. for the Blind** (Gujarat State Branch), Near ATIRA, Vastrapur Rd., Ahmedabad 380015 ; **Pragna Chakshu Andh Vidya Mandir,** Mangrol, Sorath ; **School for the Blind,** Ashram Rd., Navrangpura, Ahmedabad 380009 ; **School for the Blind,** Visavdar, Junagadh Dist. 362130 ; **School for the Blind, Deaf & Dumb,** Opp. State Bank of Saurashtra, Bhavnagar 364001 ; **Sheltered Workshop for the Blind,** Jamnagar 361001 ; **Shri Bharatiya Pragna Chaksu Gurukul,** Vagheshwari Plot, Porbander 360575; **Shrimati M. K. Mehta School for the Blind,** Tale Baug, Palanpur, Sabarkantha Dist. 385001 ; **Shri V. D. Parekh Andh Mahila Vikas Grih,** Near Swaminarayan Gurukul, Dhebar Rd., Rajkot 360002 ; **Society for the Preservation of Eye-sight,** Virnagar 360060 ; **Tata Agricultural & Rural Training Centre for the Blind,** Phansa 396140.

HARYANA

Adarsh Neterheen Vidyalaya, Charkhi Dadri, Mohindergarh Dist. 123306 ; **Andh Kanya Pathshala,** Multani Chowk, Hissar 125001 ; **Blind Relief Section,** Dist. Red Cross Society, Hissar 125001 ; **Blind Welfare Society,** Opp. 2A/71, N.I.T., Faridabad 122001 ; **Govt. Instt. for the Blind,** Industrial Area, Panipat 132103 ; **Pragatisheel Navyuvak Netraviheen Kalyankari Sangh,** Shukla House, Hodal 121106 ; **S. D. Instt. for the Blind,** Ambala Cantt. 133001 ; **Training Centre for the Adult Blind,** Sonepat 131001.

JAMMU & KASHMIR

Abhedananda Home for Blind and Handicapped, Modern School for Integrated Educ., Silk Factory Rd., Srinagar 190001 ; **Akhil Bharatiya Netrahin Sangh,** Ved Mandir, Jammu 180001 ; **Blind Welfare Centre,** Sopore, Kashmir 193201 ; **Residential School for the Blind,** Ved Mandir (Town), Jammu 180001.

KARNATAKA

Belgaum Dist. Assocn. for the Blind, Kamal Kutir, 170, Belgaum Cantt. 590001 ; **Bharatiya Grameena Mahila Sangh** (Karnataka State Branch), Vibhutipura, H.A.L., Bangalore 560037 ; **Blind Relief Asscn.,** Bijapur

585101 ; **Divine Light School for the Blind,** Whitefield, Bangalore 562136 ; **Govt. School for the Blind,** Behind Alwan-g-sethi, Gulbarga 585101 ; **Govt. School for the Blind,** Hubli 580024 ; **Govt. School for Deaf & Blind Boys,** Mysore 570001 ; **Gramabharati Sikshana Samiti,** Shigli, Dharwar Dist. 580001 ; **Institute of Ophthalmology,** Minto Ophthalmic Hospital, Bangalore 560001 ; **Jagadguru Sri Shrivaratheswara Maha Vidya Peetha,** Ramanuja Rd., Mysore 570004 ; **Mahila Vidya Peetha,** Hubli 580021 ; **Mysore Rajya Netra Rakshana Sahayake Samiti,** Kusbad Galli, Hubli 580020 ; **Mysore Welfare Assocn. for the Blind,** Kamala Mansion, 143, Infantry Rd., Bangalore 560001 ; **Shree Ramana Maharishi Academy for the Blind,** 111, [illegible] East End Rd., Bangalore 562104 ; **Shri Ramakrishna Work-House for the Blind,** 18, 1st Block East, Jayanagar, Bangalore 560011.

KERALA

Asscn. for Welfare of the Handicapped, Sangeeth Bldgs., R. S. Rd., P.B. No. 59, Calicut 673001 ; **Blindmen Samithi,** Cannanore 670002 ; **Educl. Tech. Instt. for the Blind,** Nampiyankavu, P.O. Madayikonam 680712 ; **Govt. School for the Blind,** P.O. Vidyanagar, Kasargod 670121 ; **Govt. School for the Blind,** P.O. Olesha, Kottayam 686001 ; **Govt. School for the Blind, Deaf & Dumb,** Trivandrum 695004 ; **Kerala Blind Welfare Asscn.,** Mandakapallipuram, Angadipuram 679321 ; **Kerala Federation of the Blind,** Trivandrum 695017 ; **Kerala School for the Blind,** Kerala Deaf & Dumb Welfare Asscn., Tiruvalla 689101 ; **Light to the Blind,** Christu Giri, Srinivasapuram 695145 ; **National Asscn. for the Blind** (Kerala State Branch), C/o Marikar Motors Ltd., Trivandrum 695001 ; **School for the Blind,** P.O. Thottumugham, Alwaye 683105 ; **School for the Blind,** Kunnamkulam 680503 ; **School for the Blind, Deaf and Dumb,** Assisi Mount Neerpara, Vadakara, P.O. Thalayolaparamba 686605.

MADHYA PRADESH

Blind, Deaf, Mute Children's Home, Near Medical Coll., Bheda Ghat Rd., Village Kogwa, P.O. Tewar, Jabalpur 482001 ; **Blind Relief Asscn.,** 73 13 14 South, T. T. Nagar, Bhopal 462001 ; **Deaf, Dumb and Blind School,** Bada Rawla, Opp. Gita Mandir, Indore 452004 ; **Govt. Blind, Deaf and Dumb School,** Keshar Bungalow, Parsi Bazar, Bhopal 462001 ; **Govt. Blind, Deaf & Dumb School,** Harsh Bhawan, Juniline Ward, Bilaspur 495001 ; **Govt. Home for Deaf, Dumb and Blind Children,** 102, Cherital, Jabalpur 482001 ; **Govt. School for Blind Children,** Kabala Park, Vivekanand Ashram, P.O. Raipur 492001 ; **Madhav Andh Ashram,** Jhansi Rd., Lashkar, Gwalior 474001 ; **Mahesh Drishtiheen Kalyan Sangh,** 170, Netaji Subhas Marg, Indore 452001 ; **M. P. Dhrishtiheen Kalyan Sangh,** Devas Branch, Yamuna Niwas, Bada Bazaar, Devas ; **M. P. Welfare Asscn. for the Blind,** 84, Veer Savarkar Market, Indore 452004 ; **M. P. Welfare Asscn. for the Blind,** (Khandwa Branch), C/o Shri Krishna Rao Mandloi, Hariganj, Khandwa 450001 ; **M. P. Welfare Asscn. for the Blind,** (Ujjain Branch), C/o Apangashram, Mahankal Rd., Ujjain 456001 ; **School & Rehabilitation Centre for the Blind,** C/o Evangelical Lutheran Church in M.P., Padhar Hospital, P.O. Padhar, Betul 460001 ; **Vocational Rehabilitation Centre for the Physically Handicapped,** Corpn. New Market, Opp. Nav Bharat Press, Napier Town, Jabalpur 482001.

MAHARASHTRA

Andh Kalyan Mandir, Pimpri-Bhosari Rd., Pimpri 411018 ; **Andh Vidya Mandir,** At & P.O. Wardha Maneri, Taluka Arvi, Wardha 442201 ; **Bassein Blind Relief Asscn.,** Eye Hospital, Azad Rd., Bassein 401201 ; **Blind Men's Asscn.,** 81-A, Jaldarshan, L. Jagmohandas Marg, Bombay 400036 ; **Blind Men's Industrial Co-operative Producers' Society Ltd.,** 22/686, M. H. B. Tagore Nagar, Vikhroli, Bombay 400083 ; **Blind Men's Working Hostel,** Salvation Army, 84, Sankli St., Byculla, Bombay 400008 ; **Blind Progressive Society,** 12, Devkaran Bhavan, Zaver Rd., Mulund, Bombay 400080 ; **Blind Relief Assocn.,** Botawala Bldg., 475-83, Kalbabadevi Rd., Bombay 400002 ; **Blind Relief Asscn.,** South Ambazari Rd., Nagpur 440003 ; **Blind Welfare Asscn.,** Housing Colony, Amravati 444601 ; **Blind Welfare Centre,** 1st floor, Shankar Bldg., Mastan Tank Cross Lane, Bombay 400008 ; **Dadar School for the Blind,** 160, Dadasaheb Phalke Rd., Dadar, Bombay 400014 ; **Govt. School for the Blind,** Bhandara 441904 ; **Govt. School for the Blind,** Latur, Osmanabad 413501 ; **Govt. School for the Blind,** Malvan 416606 ; **Govt. School for the Blind,** Mandvi, Mangaon, Kolaba Dist.; **Govt. School for the Blind,** Manji Rajuji Sanatorium. Nasik 422001 ; **Haji Allarakhia Sonawala Andh & Anath Stree Ashram,** 37, Gilbert Hill, Dadabhai Rd., Andheri, Bombay 400058; **Happy Home & School for the Blind,** Dr. Annie Besant Rd., Worli, Bombay 400018; **Industrial Home for Blind Women,** T.P.S. No. 6, Plot No. 35, Near Lallubhai Park, Andheri (West), Bombay 400057; **Krishanlal Jalan Charity Trust,** 339, Kalbadevi Rd., Bombay 400002 ; **Maharogi Seva Samiti,** Warora, P.O. Anandvan, Chandrapur Dist. ; **M. N. Banajee Industrial Home for the Blind,** 280, S. V. Rd., Jogeshwari. Bombay 400060 ; **Nab-Kaka Patil Centre for the Blind,** 18, Pandu Patil Lane, Andheri (West), Bombay 400058 ; **National Asscn. for the Blind,** J. Wadia Bldg., 51, M. Gandhi Rd., Bombay 400023 ; **National Asscn. of the Instructors of the Blind,** C/o Mr. K. N. K. Jussawalla, C-202, Poonam Apartments, Worli, Bombay 400018 ; **National Christian Council,** Nagpur 440001 ; **NAB-Lion Home for Aging Blind,** "Sudder-Baug", Old Khandala Rd., Near Uttarayan Ashram, Mawal, Khandala 410301 ; **NAB-Mata Lachmi Nursery for the Blind,** 218, East Sion Rd., Sion, Bombay 400022 ; **N. S. D. Industrial Home for the Blind,** 52, B. D. D. Chawls, Worli, Bombay 400018 ; **National Christian Council,** Nagpur 440001 ; **National Society for Equal Opportunities for the Handicapped,** Chatrapati Shivaji Maharaj Market, Palton Rd., Bombay 400001 ; **Poona Blind Men's Asscn.,** 82, Rasta Peth, Pune 411002 ; **Poona School & Home for the Blind,** Koregaon Park, Pune 411001 ; **Pragati Andh Vidyalaya,** 18, Narayan Niwas, Ghantali Colony, Naupada, Thane 400602 ; **Ramabai Mukti Mission,** Khedgaon, Pune Dist. ; **Rashtriya Shahakari Shikshan Prasarak Mandal Ltd.,** School for the Blind, Chalisgaon 424101 ; **Royal Commonwealth Society for the Blind,** (South Asia Regional Office), B-1/B-3, Matru Ashish, 454, Nepean Sea Rd., Bombay 400036 ; **Satara Andhjan Mandal,** 98, Sadashiv Peth, Satara 415001 ; **School for the Blind,** C/o Rashtriya Sahakari Shiksan Prasarak Mandal Ltd., Chalisgaon, Jalgaon 425001 ; **School for the Blind,** Deopur, Dhule 424001 ; **School for the Blind,** Boladi (Both Rd.), Kinwat, Nanded Dist. 431601 ; **Shrama Sadhana Trust,** 159, Shani Peth, Jalgaon 425001 ; **Shri Gadge Maharaj Andh Pangle Sadavarta,** Murtizapur, Dist. Akola 444001 ; **Swami Vivekanand Medical Mission,** Sanjivani Hospital, Virar 401303 ; **Victoria Memorial High School for the Blind,** 73, Tardeo Rd., Bombay 400034 ; **Vocational Rehabilitation Centre for the Physically Handicapped,** C. T. I. Campus, Sion-Trombay Rd., Kurla, Bombay 400070 ;

Workshop for the Blind, Dr. Annie Besant Rd., Prabhadevi, Bombay 400025.

MANIPUR

Ideal Blind School, Post Box No. 24, Imphal 795001.

MIZORAM

Salvation Army School for the Blind, Kolasib 796101.

ORISSA

Red Cross School for the Blind, Near City Hospital, P.O. Berhampur 760001 ; **Orissa State Council for Child Welfare,** Raj Bhuvan, Bhubaneshwar 751001 ; **School for the Blind, Deaf & Dumb** (Orissa State Council for Child Welfare), Burla, Sambalpur 768001.

PONDICHERRY

Blind Relief Asscn., 17, Gang Shala, Pondicherry 605001· **Government School for the Blind,** Pillaicavadi, Kalapet P.O., Pondicherry 605104 ; **School for Blind Children,** Pondicherry.

PUNJAB

Blind School, 541, Model Town, Jullunder 144001 ; **Home for the Blind,** C/o District Council for the Welfare of the Handicapped, 1, Maheshchand Library Rd., Ferozepur City 152001; **Govt. Instt. for the Blind,** Kalsion Ashram Bldg., Gill Rd., Ludhiana 141003 ; **Home for the Blind and the Disabled,** Opp. Bus Stand, Malerkotla 148023 ; **Institution for the Blind** (Andh Vidyalaya), Outside Lohgarh Gate, Amritsar 143001 ; **School for the Blind,** Amar Ashram, The Lower Mall, Patiala 147001 ; **Smt. Bhagwati Devi Memorial Society for Blind,** 6-E, Mukand Lal Rd., Civil Lines, Ludhiana 141001 ; **Surma Singh Ashram,** G. T. Rd., Amritsar 143001 ; **Vocational Rehabilitation Centre, for Physically Handicapped,** C. T. I. Campus, Gill Rd., Ludhiana 141003 ; **Vocational Rehabilitation Training Centre for Blind and Handicapped,** Gopal Lodge, Issa Nagari, Ludhiana 141001.

RAJASTHAN

Government School for the Blind, Adarshnagar, Ajmer 305001 ; **Government Residential School for the Blind Boys,** Bikaner 334001 ; **Netraheen Seva Sangh,** 95, Adarshnagar, Ajmer 305001 ; **Pheroze & Noshir Merwanji Rehabilitation Centre for the Blind,** "East View", Mount Abu 307501 ; **Pragya Chakshu Sikshan Shansthan** (Andh Vidyalaya), Udaipur 313001 ; **Rajasthan Netrahin Kalyan Sangh,** 1016, Nataniyon Ki Gali, Tripolia Bazar, Jaipur 303003.

TAMIL NADU

Bishop Diehl Rehabilitation Home for the Blind, Tranquebar House Compound, Tiruchirapalli 620001 ; **Blind Relief Association,** Fort Round Rd., Vellore 632001 ; **Blind Society,** Jamadhagni, 10, Telegraph Office Lane, Ootacamund 643001; **Christian Foundation for the Blind,** 9, Trust Square, Ramalingapuram, Madras 600012 ; **Christoffel Blinden Mission,** 1, Highways Colony, Tiruchirapalli 620020 ; **C. S. I. School for the Blind,** Irenepuram 629171 ; **Government School for the Blind,** Poonamallee ; **Government School for the Blind,** Sivaganga, Ramanathapuram 623501 ; **Government School for the Blind,** Shivpet, Salem 636002 ; **Government School for the Blind,** Cuddalore 607001 ; **Govt. School for the Blind,** Sir T. Desikachariar Bldgs., Puthur, Tiruchirapalli 620017 ; **Govt. School for the Blind,** Pudukkottai 622001 ; **Govt. School for Blind,** Garden Rd., Ootacamund 643001 ; **Home for the Blind Women,** No. 36, Chinna Mettupalayam, 2nd St., Madras 600019 ; **Indian Evangelical Lutheran Church School for the Blind,** I.E.L.C. Compound, Burgur, Dharmapuri 636701 ; **Light Engg. Project for the Adult Blind,** C-22 , Industrial Estate, Guindy 600032 ; **National Asscn. for the Blind** (Tamil Nadu State Branch), 4, Hunters Rd., Vepery 600007 ; **ORBIT (Organisation for Rehabilitation of the Blind in Tiruchi),** ORBIT Workshop, Rajaji Sanatorium, Racquet Court Lane, Tiruchirapalli 620001 ; **Rehabilitation Centre for the Blind Women,** 6/26, Crawford Colony, Tiruchirapalli 620012 ; **School for the Blind,** Palayamkottai 627002 ; **School for the Blind,** Swedish Mission Hospital, Tirupputtur 635601 ; **School for the Blind & Deaf,** Cathedral Post, G. N. Cherry St., Madras 600006 ; **Sheltered Workshop & Training Centre for Blind Women,** 22, S. Mada St., Tiruvanmiyur 600041 ; **Siloam School & Home for the Blind,** 6, Gandhinagar St., Subramaniapuram 620020 ; **Society for Aiding the Handicapped,** Kamakoti, 36, VI Main Rd., R. A. Puram 600028 ; **Society for the Welfare of the Handicapped** (Blind Wing), 16, Besant Avenue, Adyar, Madras 600020 ; **St. Louis Instt. for the Deaf & Blind,** Canal Bank Rd., Madras 600020 ; **Student Service for the Blind,** C/o Madras Christian College, Tambaram 600045 ; **Tamil Nadu Blind Welfare Asscn.,** Vellavadu Post, Madras 602103 ; **Tamil Nadu Asscn. of the Blind,** 225, V. O. C. Nagar, Madras 600081 ; **Tamil Nadu Rehabilitation Centre for the Blind,** Madurai Medical College, Madurai 625020 ; **Telc Home & School for the Blind,** Podanur, Moses Gnanabaranam Eye Hospital, 55, Big Bazaar St., Coimbatore 641001.

TRIPURA

Instt. for the Visually Handicapped, Narasingarh P.O. Bimangarh, Agartala 799001.

UTTAR PRADESH

Agra Andh Vidyalay, 1/196, Beg Farjana Rd., Civil Line, Agra 282002 ; **Ahmedi School for the Blind,** Civil Lines, Aligarh 202001 ; **Andh Vidyalay,** Hariharnath Shastri Smarak Bhavan, Kanpur 208001 ; **Bundelkhand Blind Welfare Asscn.,** Banda 210001 ; **Blind School,** Bhadaini, Varanasi 221001 ; **Blind Welfare Society** (Netraheen Sahayak Sangh), G/19, Arvind Colony, Varanasi 221005 ; **Govt. School for the Blind,** Banda 210001 ; **Govt. School for the Blind,** Gorakhpur 273001 ; **Govt. School for the Blind,** Pirpur House, Butler Rd., Lucknow 226001 ; **Hanuman Prasad Potdar Andh Vidyalay,** Durgakund, Varanasi 221005 ; **Indumati Andh Shishu Sharanalaya,** P.O. Tehri 249001 ; **Jeevan Jyoti School for the Blind,** S-2/215, Bhojubir, Varanasi 221002 ; **Kashi Seva Samiti,** Kabir Chaura, Varanasi 221001 ; **Kunwarlal Singh Industrial School for the Blind,** Kacheri Rd., Mainpuri 205001 ; **Netraviheen Kalyan Sangh,** 9-C, Civil Lines, Gorakhpur 273001 ; **Netra-Vihin Hitkari Sangh,** 58/4, Birhana Rd., Kanpur 208001 ; **National Centre for the Blind,** P.O. Box 41, Rajpur Rd., Dehra Dun 248001 ; **Saraswati Badhit Kalyan Kendra,** Sitapur 261001 ; **School for the Blind, Deaf & Dumb,** 110/241, Nehru Nagar, Kanpur 208001 ; **School & Home for the Blind,** Naini, Allahabad 211001; **School for the Blind Attached to the Eye Hospital,** Sitapur 261001 ; **School & Home for the Blind,** Nainital 263001 ; **Sharp Memorial School for the Blind,** Rajpur Rd., Dehra Dun 248001 ; **Shree Ajara Nand Andh Vidyalaya,** Sapt. Sarovar, Hardwar, Saharanpur

244401 ; **Sri Adinath School for the Blind,** Dhampra, Arrah.

WEST BENGAL

Blind Boys' Academy, Ramakrishna Mission Ashram, P.O. Narendrapur 743508 ; **Blind Persons Asscn.,** Bapujinagar Society, Jadavpur, Calcutta 700032 ; **Calcutta Blind School,** Behala, Calcutta 700034 ; **Govt. School for the Blind,** Directorate of Social Welfare, Nilkuthi (Negh Mandir), Cooch Behar 736101 ; **Lighthouse for the Blind,** 174, S. P. Mookherjee Rd., Calcutta 700026 ; **Mary Scott Home for the Blind,** Kalimpong, 734301 ; **National Asscn. for the Blind,** West Bengal State Branch, C/o Union Paper & Board Mills Ltd., 18, Netaji Subhas Rd., Calcutta 700001 ; **School for the Blind,** Swedish Mission, Cooch Behar 736101 ; **Welfare Society for the Blind,** 6, Old Post Office St., Calcutta 700001.

INSTITUTIONS FOR THE DEAF AND DUMB

ANDHRA PRADESH

A. P. Assoc. of the Deaf, H. No. 16-8-933/1/3, N. Sagar Rd., Malakpet, Hyderabad 500036 ; **Aram Ghar,** Indian Council of Social Welfare, Katedhan, Hyderabad 500006 ; **Govt. High School for the Deaf and Dumb,** Kakinada 533001 ; **Govt. School for the Blind & Deaf,** Malakpet Jubilee P.O., Hyderabad 500036 ; **School for Partially Deaf Children,** Ameerpet, Hyderabad ; **Training Centre for the Adult Deaf,** Malakpet, Hyderabad 500036 ; **Vocational Rehabilitation Centre for Physically Handicapped,** C.T.I. Campus, Vidyanagar, Hyderabad 500007.

ASSAM

Assam Deaf & Dumb Assoc., Ambari, Gauhati 781001 ; **Govt. Bhawari Debi Sarawgi Deaf & Dumb School,** Kahilipara, Gauhati 781005.

BIHAR

Arrah Mook Badhir Vidyalaya, Mahadeva Rd., Arrah 802301 ; **Bihar Deaf & Dumb Assoc.,** 92, A. Kumar Rd., Rajendra Nagar, Patna 800016 ; **Bihar Deaf & Dumb School,** Bari Rd., Patna 800001 ; **Shree Kameshwari Priya Poor Home's Deaf & Dumb School,** Darbhanga 846004 ; **Kshitish Deaf & Dumb School,** Niwaranpur, P.O. Hinoo, Ranchi Dist. ; **Patna Deaf & Dumb School,** Mahendra Rd., Patna 800001 ; **Society for the Deaf of Chotanagpur,** Nibaranpur, P.O. Hinoo, Ranchi Dist. ; **Vijay Vihar (Home & School for Deaf Children),** Jamshedpur 831001.

DELHI

All India Federation of the Deaf, 18, North End Complex, R. K. Ashram Rd., New Delhi 110001 ; **Balwantrai Mehta Vidya Higher Secondary School,** Lajpat Bhawan, Lajpat Nagar, New Delhi 110024 ; **Deaf & Dumb Co-op. Industrial Society,** 65, Kamala Market, Asaf Ali Rd., New Delhi 110001 ; **Deaf & Dumb Ladies Employment Centre,** 321, Vinay Marg, Chanakya Puri, New Delhi 110001; **Delhi Deaf & Dumb Association,** 92, Kamala Market, New Delhi 110001 ; **Govt. Lady Noyce School for the Deaf,** 2, Feroze Shah Kolta, New Delhi 110001 ; **Handloom Weaving Centre for Deaf,** 8073, Bara Hindu Rd., Delhi ; **Multi-purpose Training Centre for Deaf,** 18, North End Complex, R. K. Ashram Rd., New Delhi 110001 ; **Photography Institute for the Deaf,** 18, North End Complex, R. K. Ashram Rd., New Delhi 110001 ; **Printing Press Institute for the Deaf,** Jhandewalan Extn., New Delhi 110055 ; **Tailoring Centre for Deaf,** 85, Kamala Market, New Delhi 110001 ; **Tailoring Training Centre for Deaf Girls,** 92, Kamala Market, New Delhi 110001 ; **Vocational Rehabilitation Centre for Physically Handicapped,** I.T.T. Campus, Pusa, New Delhi 110012.

GUJARAT

Ahmedabad Behara-Munga Mitra Mandal, C/o Shri R. C. Shah, 7, Bharati Society, Ellis Bridge, Ahmedabad 380001 ; **Day School for Deaf & Dumb,** Surat; **Deaf & Dumb School,** P.O. Kachholi, Via Bulsar 396370 ; **Deaf & Dumb School,** Madan Zampa Rd., Vadodara 390001 ; **Govt. Deaf & Dumb School,** Opp. Hathikhana, M. Gandhi Rd.; Junagadh 362001 ; **Govt. School for Deaf, Mutes & Blind,** Matiya Bhavan, Gondal Rd., Rajkot ; **Gyan Jyoti,** Janmiyapura, Gandhinagar ; **Kalpana Balamandir and Shishu Griha for Deaf & Blind,** Ashram Rd., Navrangpura, Ahmedabad 380009 ; **Khimchand L. Deaf & Dumb School,** Nagar Pole, Vora Bazar, Bhavnagar 364001 ; **Muk-Badhir Mitra Mandal,** Desai Sheri, Ghadiali Pole, Vadodara 390001 ; **Muk Vidyalaya,** (School for Deaf & Dumb), Kumarshala, Shiya Baug, Vadodara 390001 ; **Municipal School for Deaf & Dumb,** Ambaji Rd., Hawadia Chakala Gopipura, Mughsura, Surat ; **School for Blind, Deaf, Dumb & Crippled Children,** Mandvi-Kutch ; **School for the Deaf,** Pilajiganj, Mehsana 384001 ; **School for Deaf Mutes,** Ashram Rd., Navarangpura, Ahmedabad 380009 ; **Smt. K. K. School for the Deaf,** Pilajiganj, Mehsana 384001 ; **Shri & Smt. Chh. Sha Virani School for the Deaf,** Dhebar Rd., Rajkot 360002 ; **Shri S. P. K. Kothari Multi-purpose School for the Deaf,** P.O. Vijalpur, via Navasari, Bulsar Dist. ; **Training Centre for Adult Deaf,** Ashram Rd., Ahmedabad 380009.

HARYANA

Haryana Welfare Centre for the Deaf & Dumb, Mehrauli Rd., Gurgaon 122001.

JAMMU & KASHMIR

Abhedanand Home for Blind, Deaf, Dumb and Handicapped, Ram Bagh, Silk Factory Rd., Srinagar 190001.

KARNATAKA

Assoc. of the Deaf, 9/4, Uttaradi Mutt Bldg., Basavanagudi, Bangalore 560001 ; **Deaf & Dumb School,** Notified Area, Dandeli, North Kanara Dist. ; **Govt. School for Deaf Boys & Girls,** Jewargi Rd., Gulbarga 585102 ; **Mysore Deaf & Dumb Assoc.,** 'B' Hostel, Room No. 22, West Coast Paper Mills Ltd., Bangur Nagar, Dandeli ; **School for the Deaf & Blind Boys,** Tilak Rd., Mysore 570001 ; **Sheila Kothavala Instt. for the Deaf,** Rustam Bagh, H. A. L. Rd., Bangalore 560017.

KERALA

Deaf & Dumb School, Trivandrum 695001 ; **Department of Physical Medicine and Rehabilitation,** Medical College, Trivandrum 695011 ; **Govt. School for Blind, Deaf and Dumb,** Kunnamkulam, Trichur ; **Govt. School for the Blind, Deaf & Dumb,** Bhaktuvilas, Trivandrum 695001 ; **Govt. School for the Blind, Deaf & Dumb,** Trichur Rd., Kannamkulam, Trichur Dist. ; **Govt. School for the Deaf Mutes,** Kanniyampuram, P.O. Ottapalam, 679101 ; **Rahumania School for the Handicapped,** Calicut 673001 ; **School**

for Deaf Children, Tiruvalla 689101 ; **School for Deaf & Mutes,** Chunangad 679511 ; **School for the Deaf and Blind,** Asisi Mount, Vadakara, Kottayam 686001 ; **School for the Blind & Deaf,** Thothumukham, Alwaye 863105 ; **Vikalanga Sevaka Co-op. Society,** Pattom, Trivandrum ; **Vocational Training Centre for the Physically Handicapped,** Kunnukuzhi, Trivandrum 695001 ; **Vocational Training Centre for the Physically Handicapped,** R. C. Rd., Calicut 673001.

MADHYA PRADESH

Blind, Deaf Mute Children's Home, Bheda Ghat Rd., Kogwa, P.O. Tewar, Jabalpur 482001 ; **Deaf and Dumb, Blind School,** Bada Rawala, Juni Indore ; **Deaf & Dumb Institute,** Krishnapura, Indore 452001 ; **Deaf & Dumb School,** Billaspur 495001 ; **Govt. Deaf and Blind School,** Quesher Bungalow, Parsi Bazar, Bhopal ; **Govt. Blind, Deaf & Mute School,** Hars Bhavan, Juvenile Ward, Bilaspur 495001 ; **Home for the Orthopaedically Handicapped Children,** 3/4, Raja Talab, Raipur ; **M. P. Deaf & Dumb Welfare Society,** Jiwajiganj, Laskar, Gwalior 474001 ; **Saurashtra Deaf & Dumb School,** Bhopal 462001 ; **School for Deaf Mute Children,** Shadol 484001 ; **School for Blind & Deaf Mutes,** 23, Martand Chowk, Indore 452001 ; **School for the Deaf & Blind,** 102, Cherital, Jabalpur 482001 ; **School for Deaf Mute Children,** Chandrabadni-ka-Naka, Near Raja Gajra Medical College, Gwalior 474001 ; **Shree Madhav Ashram,** Rani Jhansi Rd., Gwalior ; **State Home for Adult Mute Deaf Persons,** Morai Mohalla, H. No. 10, Purdeshipura, Indore 452003 ; **State Home for Adult Deaf & Dumb,** Chhawani, House No. 16, Indore 452001 ; **Welfare Assoc. for the Deaf,** 166, Subhas Marg, Indore 452001.

MAHARASHTRA

Bharat Muk Vidyalaya, Gandhi Bagh, Nagpur 440002 ; **Bhagini Seva Mandir Kumarika Stree Mandal,** Sarojini Rd., Vile Parle (West), Bombay 400056 ; **Bombay Deaf Centre,** C/o St. Stanislaus High School, Bandra, Bombay 400050 ; **Bombay Deaf & Dumb Institute,** Kakadwadi, Girgaon, Bombay 400004 ; **Bombay Deaf & Dumb Society,** Govind Bldg., Shamaldas Gandhi Marg, Bombay 400001 ; **Bombay Institute for the Deaf Mutes,** 33, Nesbit Rd., Mazgaon, Bombay 400006 ; **Central Society for the Education of the Deaf,** 94, Napean Sea Rd., Bombay 400006 ; **Cheshire Homes India,** Bethlehem House, Mahakali Rd., Andheri (East), Bombay 400093 ; **Deaf & Dumb School,** Station Rd., Thane 400601; **Deaf , Dumb & Blind Industrial Instt.,** North Ambazari Rd., Shankarnagar, Near Saraswati Vidyalaya, Nagpur ; **Dumb-Deaf School,** Navi Peth, Solapur 413001 ; **Education Audiology & Research Society for the Deaf Children,** 67, Napean Sea Rd., Bombay 400006 ; **Govt. School for the Deaf,** Gondhalpada, Post Veshvi, Alibag 402201 ; **Govt. School for the Deaf,** Jathar Peth, Akola 444001 ; **Govt. School for the Deaf,** Nagsem Housing Society, Jinsi, Aurangabad 431001 ; **Govt. Training Centre for Adult Deaf,** Shanti Bhavan, Ulhasnagar Camp, Thane ; **Happy House Play Way Learning Centre,** St. Peter's Rd., Bandra, Bombay 400050 ; **Indian Deaf Society,** C/o Bharda New High School, Waudby Rd., Bombay 400001 ; **Indian National Society for the Deaf,** 15, Dadyseth Rd., Chowpatty, Bombay 400007 ; **Institute for Handicapped in Hearing,** Pandharpur Rd., Miraj 416410 ; **Maharashtra Deaf & Dumb Welfare Assoc.,** 425, Narain Peth, Pune 411002 ; **Muk Badhir Vidyalaya,** C/o Lions Club, Malegaon Nasik Dist.; **N. V. Prasarak Mandala,** Dumb/Deaf School, 1520, Shivaji Peth (A Ward), Kolhapur ; **Prof. Date's School for Deaf Mutes,** Thakurdwar, Bombay 400002 ; **Radha Kisan Furma Deaf-Dumb School** (Rotary North), Damani Nagar, Solapur 413002 ; **School for Deaf & Dumb,** Vijay Shikshan Sanstha, 172, Naigaum Cross Rd., Dadar, Bombay 400014 ; **School for the Deaf,** 18, Motlibai St., Agripada, Bombay 400011; **Stephen's High School for the Deaf,** 15, Dadyseth Rd., Bombay 400007 ; **Surhid Mandal for Deaf,** 492, Narayan Peth, Nagarkar Wada, Pune 411030 ; **Vacha Prasikshan Vidyalaya for Deaf Children,** New Educ. Society, New Mahadwar Rd., Kolhapur 416001 ; **Vikas Vidyalaya for Deaf Children,** A. S. Mehta Apartments, Bhawani Shankar Rd., Dadar, Bombay 400028 ; **Vinay Kumar Ramniwas Ruia Muk Badhir Vidyalaya,** C/o Tilak College of Education, Tilak Rd., Pune 411030 ; **Vocational Rehabilitation Centre for Physically Handicapped,** C. T. I. Campus, Sion-Trombay Rd., Kurla, Bombay 400070.

MEGHALAYA

North East India Association of the Deaf, Shillong 793001.

ORISSA

All India Deaf & Dumb School, Bhubaneshwar 751001 ; **Crafts Training Centre for the Deaf,** Plot No. 118, Shaheed Nagar, Bhubaneswar 751007 ; **Muk Badhir Vidya Bhavan,** Bhubaneswar 751001 ; **Red Cross School for Blind, Deaf & Dumb,** Bhubaneswar ; **School for the Blind, Deaf & Dumb,** Bhubaneswar 751007.

PONDICHERRY

Govt. School for the Blind, Deaf & Dumb, Pillaichavady via Kottakuppam, Pondicherry 605104.

PUNJAB

Deaf & Dumb School, Amritsar 143001 ; **Deaf & Dumb Organisation,** E/R 127, Pucca Bagh, Jullundur 144001 ; **Deaf & Dumb School,** Burton Park, G. T. Rd., Jullundur 144001 ; **School for the Deaf Children,** 20A, Shastri Nagar, Ludhiana 144002 ; **School for the Deaf & Dumb,** S. Kishan Singh Kamboj Hostel, Lower Mall, Patiala 147003.

RAJASTHAN

Badhir Vidyalaya for the Deaf, Anasagar, Circular Rd., Ajmer 305004 ; **Rajasthan Badhir Sabha,** 352, Raja Park, Jaipur 302001 ; **Rajasthan Deaf & Dumb School,** Ratangarh, Bikaner Dist. ; **Rehabilitation Centre for Handicapped Children,** J-14, Deepak Marg, Moti Doongri Rd., Adarsh Nagar, Jaipur 302004; **Seth Anandilal Podar Govt. Institute for Deaf & Dumb,** J. Nehru Rd., Jaipur 302004.

TAMIL NADU

Anbu Nilayam (Cheshire Home), Covelong, Chingleput 603103 ; **Assoc. of Parents of Deaf Children,** Kamakoti, 35-A, Sixth Main Rd., R. A. Puram, Madras 600028 ; **C. S. I. School for the Deaf and Rehabilitation Centre for the Deaf,** C. S. I. Compound, Manamadamai, Ramnad Dist. ; **C. S. I. School for the Deaf,** 148, Santhome High Rd., Madras 600004 ; **C. S. I. School for the Deaf,** Kottaram, Kanya Kumari Dist. ; **Clarke School for the Deaf,** Kamakoti, 35/A, Sixth Main Rd., Raja Annamalaipuram, Madras 600028 ; **Coimbatore Deaf & Dumb Assoc.,** 153, Okkiliar St., Coimbatore 641001 ; **Deaf & Dumb School,** Ambassamundram 627401 ; **Deaf School,** Manamadurai, Ramnathapuram

Dist.; **Florence Swainson School for the Deaf,** Palayamkottai 627002; **Govt. School for the Deaf,** 1, Shivaji Nagar, Thanjavur 613001; **Hearing & Speech Centre,** Christian Medical College Hospital, Vellore 632004; **I. E. L. C. School for the Deaf,** Ambur, North Arcot 635802; **Little Woodford** (School for Deaf Children), 114, Mowbray's Rd., Madras 600018; **Minakshi School for the Deaf,** Madurai, 625001; **Municipal Deaf & Dumb School,** Karaikudi, Ramnad 623001; **Municipal Deaf & Dumb School,** Coimbatore 641002; **Municipal School for the Deaf,** Teynampet, Madras 600045; **School for the Deaf,** Cathedral P.O., Madras 600006; **Shanti Samarasa Deaf & Dumb School,** Kalyanipuram Silvasilam, Tirunelveli 627428; **St. Louis Institute for the Deaf & Blind,** Gandhinagar, Adyar, Madras 600020; **Tirunelveli After-Care & Welfare Assoc. for the Deaf & Dumb,** Mildred Cottage, 17, Main Rd., Kulavanigarpuram, Palayamkottai 627002; **Training Centre for the Adult Deaf,** 37, Santhome High Rd., Madras 600028; **Y. M. C. A. School for the Deaf,** Y.M.C.A. Main Guard Square, Madurai 625001.

UTTAR PRADESH

Badhir Vidyalaya (Deaf & Dumb Instt.), Mohalla Kechcha Katra, Shahjahanpur 242001; **Bareilly Mook Badhir Sangh,** 256, Beharipur, Daryaiya Gali, Bareilly 243001; **Deaf & Dumb Assoc.,** C/o Shri Satya Prakash Jaindl, Oil Mills Owners, Chhota Bazar, Lalkurti, Meerut Cantt. 250001; **Deaf & Dumb School,** 221, West End Rd., Meerut Cantt. 281002; **Deaf & Dumb School,** Faizabad 224001; **Deaf & Dumb School** (Mukh Badhir Vidyalaya), Humayunpur, Gorakhpur 273001; **Deaf & Dumb School,** Laxmi Gate, Jhansi 280041; **Deaf & Dumb School,** Sadar, Meerut 250001; **Deaf & Dumb School,** Pilibhit 262001; **Deaf & Dumb School,** D 47/196-97, Rampura, Varanasi 221001; **Doon Assoc. of the Deaf,** 16C, Kalidas Rd., Dehra Dun 248001; **Gorakhpur Badhir Sabha,** Gorakhpur 273001; **Govt. School for the Deaf & Dumb,** 27, Vijaynagar Colony, Agra 282004; **Govt. Deaf & Dumb School,** Civil Lines, Bareilly 243001; **Govt. Deaf & Dumb School,** Fategarh 209601; **Gunge Beheron Ka Vidyalaya,** 104-A/226, Ram Bagh, Kanpur 208001; **Kanpur Deaf & Dumb Assoc.,** C/o Mr. S. N. Puri, 49, Cantt., Kanpur 208005; **Mukh Badhir Vidyalaya,** Rai Bareli, 229001; **Nanhi Dunya School for the Deaf,** 18, Kalidas Rd., Dehra Dun 248001; **School for the Deaf,** Sarni Gate, Aligarh 202001; **School for the Deaf,** Deaf & Dumb School Rd., Aish Bagh, Lucknow 226001; **Speech & Hearing Clinic,** Dept. of Paediatrics, S. M. Medical College, Agra; **U. P. Deaf & Dumb Institute,** No. 4, Malaviya Rd., George Town, Allahabad 211001; **Varanasi Society for the Deaf,** 39 Sigra, Gandhi Nagar, Varanasi 221001; **Voluntary School for the Deaf & Dumb,** Puranimandi, Saharanpur 247001.

WEST BENGAL

All India Deaf Children Society, 'Belasree Bhawan', P-231, Nandan Nagar, Calcutta 700056; **All India Deaf Women's Assoc.,** P-355, Keyatala Rd., Calcutta 700029; **Bengal Deaf & Dumb Assoc., 41,** B. Sadananda Rd., Calcutta 700026; **Bijaygarh Deaf & Dumb School,** P.O. Jadavpur University, Calcutta 700032; **Calcutta Deaf & Dumb School,** 293, A. P. Chandra Rd., Calcutta 700009; **Deaf & Dumb Institute,** Rajashi; **District Assoc. for the Deaf,** 26/2, Nepal Shah Lane, Howrah 711101; **Helen Keller Memorial Library, Society for the Deaf,** 125, A. J. Chandra Bose Rd., Calcutta 700014; **Hooghly School for the Deaf,** Abinash Mukhopadhya Rd., Keola, Hooghly 712103; **Ideal School for the Deaf,** 103, A. P. Chandra Rd., Calcutta 700014; **Jatiya Badhir Sammelan,** 18, W. C. Banerjee St., Calcutta 700006; **Jatiya Muk-Vedhir School,** Grey St., Calcutta 700006; **Maharani Nilima Prabha Institute for the Deaf & Dumb,** P.O. Khagra, Beharampur 742101; **Manbhum Muk-Badhir Bidyapith,** P.O. Munsif Danga, Purulia Dist.; **Mukavadhir Vidyamandir,** 269/19, Lal Tagore Rd., Calcutta 700036; **Nabajatak School for the Deaf,** Block P, Block No. 816, New Alipore 700053; **National Organisation for Training, Employment and Labour of the Deaf,** 60A, W. C. Banerjee St., Calcutta 700006; **Oral School for the Deaf Children,** 4B, Short St., Calcutta 700016; **Polytechnic for the Deaf Women in India,** 1, Jawaharlal Nehru Rd., Calcutta 700013; **Rehabilitation Centre,** Bon-Hooghly, B. T. Rd., Calcutta 700035; **Rehabilitation India,** 47/1A, Palm Avenue, Calcutta 700019; **Salvation Army School for the Deaf,** 9th Mile, Kalimpong 734301; **Society for the Deaf,** 125A, J. C. Bose Rd., Calcutta 700014; **School for Gifted Deaf Children,** Govt. Quarters, Block No. 28/6, 9-B. T. Rd., Calcutta 700056; **Speech Centre,** 67/M/7, Haran Banerjee Lane, Calcutta; **Sri Ramendra Nath Basak Vejoygarh Deaf & Dumb School,** Vejoygarh Byamagar, Calcutta 700032; **Suri Deaf & Dumb School,** Suri, Birbhum 731001; **West Bengal Deaf Women's Assoc.,** 1A, Jawaharlal Nehru Rd. (First Fl.), Calcutta 700013.

INSTITUTIONS FOR MENTALLY RETARDED

ANDHRA PRADESH

Home for the Disabled, Basilalpet, Secunderabad 500003; **Radha Institute for Mentally Retarded Children,** Jainnivas, Himayatnagar, Street No. 11, Hyderabad 500029; **Rehabilitation Centre for Mentally Handicapped Children,** 'Sisu Gruham', G-3-1247, Somajiguda, Raj Bhavan Rd., Hyderabad 500004; **School for Mentally Retarded Children,** Dept. of Child Psychiatry, Niloufer Hospital, Hyderabad; **Hyderabad Special School for Children in Need of Special Care,** 1-3-20 9, Mahakali St., Secunderabad 500003.

BIHAR

The Central Nursing Home for Mental Invalids, Lower Burdwan Camp, Lalpur, Ranchi 834001; **Rustomji P. Patel Cheshire Home,** Sundernagar, Tatanagar.

DELHI

Banarsidas Chandiwalla Swasthya Sadan, Kalkaji C-7, South Extn. 11, New Delhi 110016; **Child Guidance Clinic for Mentally Retarded Children,** R. A. K. College of Nursing, Andrew Ganj, New Delhi 110049; **Delhi Society for Welfare of Mentally Retarded Children,** C/o College of Nursing, 12, Jaswant Singh Rd., New Delhi; **Dr. Steiner Educ. Society,** 9A, Theatre Communication Bldg., Connaught Circus, New Delhi; **Fedn. for the Welfare of the Mentally Retarded,** 3, Red Cross Rd., New Delhi 110001; **Home for Mentally Retarded Girls,** 14/78, Punjabi Bagh, New Delhi 110001; **Jawaharlal Nehru Instt. of Physical Medicine & Rehabilitation,** 4, Vishnu Digambar Marg, New Delhi 110001; **Mental Health Instt.,** F 62, East Kailash, New Delhi; **Model School for Mentally**

Deficient Children, Kasturba Niketan, Lajpat Nagar, New Delhi 110024 ; **Occupational Therapy Home for Children,** 29C, Ranjit Singh Rd., New Delhi 110001 ; **Okhla Centre** (Amrit Kaur Bal Vihar), Okhla Rd., New Delhi 110025 ; **Society for the Rehabilitation of Physically Handicapped and Mentally Backward,** 29C, Ranjit Singh Rd., New Delhi 110002.

GUJARAT

Clinic for Mentally Retarded, Dept. of Psychiatry, Edward New Hospital, Ahmedabad 380016 ; **Education & Training Institute for the Mentally Retarded Children,** A-12, Chandralok Society, New Navyug College, Surat 395001 ; **Education and Training Institution for the Mentally Retarded Children,** 29/24, Nandanvan Society, Race Course Rd., Surat 395001 ; **Female Beggars' Home,** Dabhoda, Gandhinagar ; **Govt. Mental Hygiene & Psychiatric Child Guidance Clinic,** Vishwanath Bhuwan, Sanyash, Ahmedabad 380006 ; **Gyan Jyoti,** Janmiyapura, Gandhinagar ; **Home for Mentally Deficient Children,** Pensionpara, Fatehganj, Vadodara 390002 ; **Home for Mentally Deficient Children,** Bhaktinagar Stn. Rd., Udyognagar, Rajkot 360002 ; **Jivan Vikas Trust,** A-12, Chandralok Society, Near Navyug College, Rander Rd., Surat 395001 ; **Jyoti Sangh,** Relief Rd., Ahmedabad 380001 ; **Occupational Therapy & Rehabilitation Centre,** B. M. Instt. of Mental Health, Ashram Rd., Naorangpura, Ahmedabad 380009 ; **School for Mentally Retarded Children,** Samaj Kalyan Kendra, Himavan Paldi, Ahmedabad 380007 ; **Sharada School for Mentally Retarded Children,** Jamsi Villa, Ashram Rd., Opp. Nehru Bridge, Ahmedabad 380009 ; **Shishu Kunj,** Near Vithal Wadi, Navrangpura, Ahmedabad 380009.

HARYANA

Govt. Girls High School (Special Class for Mentally Retarded Children), Model Town, Ambala.

KARNATAKA

Asha Niketan, 83/7, Bannerghatta Rd., Bangalore 560029 ; **Association for the Mentally Handicapped,** Byrasandra, Bangalore 560027 ; **Bala Mano Vikasa Kendra** (School for Mentally Retarded), Gandhi Sishya Sangha, Malleswaram, Bangalore 560003 ; **Bangalore Child Guidance Centre and Mental Retardation Instt.,** 13, Rest House Rd., Bangalore 560001 ; **Bhagawan Shri Satya Sai Baba Occupational Centre for Mentally Handicapped,** Swaraj Bhawan, 11th Cross V. V. Puram, Mysore 570002 ; **B. S. S. Dr. Steiner's Curative Education Instt.,** Vidyagiri, Dharwar 580001 ; **" Facility " Vocational Unit,** 1220/IV T Block, Jayanagar, Bangalore 560011 ; **Mahatma Gandhi Mentally Retarded Children's School,** X-Ray Instt., Wealock Hospital, Mangalore 575001 ; **Ratnaniketan,** Satellite Town, No. 559, Kengeri, Bangalore 562118 ; **School for Children in Need of Special Care,** St. Agnes College, Bendore, Mysore 575002 ; **Special School** (Sophia High School), 47, Palace Rd., Bangalore 560001 ; **Sri Satya Sai Institute for Mentally Retarded and Rehabilitation Centre,** Satyam Shivam Sundaram, 11th Cross V. V. Mohalla, Mysore 570002 ; **Stella Maria** (Mentally Handicapped Section), 23, Gayatri Devi Park Extn., Bangalore 560003 ; **' Utility ' Navjyoti Trust,** 28, Lalbagh Rd., Bangalore 560027 ; **Vocational Rehabilitation Project,** Fr. Muller's Hospital, Mangalore 575002.

KERALA

Anuradha Vocational Rehabilitation Institute, VI-306, Kakkathuruthi Rd., Irinjalakuda 680121 ; **Asha Bhawan** (Home for the Mentally Retarded Children), Ittitam, Changanachery 686101 ; **Corporation Centre for Handicapped Children,** Karaparambu, Calicut 673001 ; **Custodial Care Home for Disabled Children,** Malappuram, Manjeri 676121 ; **Home for the Mentally Deficient Children,** Kuravan Konam, Trivandrum 695001 ; **Rotary Institute for the Children in Need of Special Care,** Hassan Marikkar Hall, Vazhuthacaud, Trivandrum 695014.

MADHYA PRADESH

Asha Niketan (Institute for the Rehabilitation of the Physically Handicapped), E/6, Bhopal 462006 ; **Hawabagh Opportunity School,** C/o Hawabagh Women's College, Jabalpur 482001 ; **Home for Mentally Retarded Children,** 10, Murai Mohalla Bal Surakshan Ashram Compound, Indore 452001 ; **Home for Mentally Retarded Children,** 8/5, Old Palasia, 2B, Indore 452001 ; **Karyalay Adhikshika Mandir Drashthi,** 3-E, Avikasit Bachho ka Grih, Indore 452001 ; **M. Y. Hospital Child Guidance Clinic,** Indore 452001 ; **Paul Harris School for the Mentally Retarded Children,** 1/3, Old Palasia, Indore 452001 ; **School for Mentally Handicapped Children,** Ravindra Nagar, Indore 452001 ; **Vasudhaiv-Kutumbam,** Near Park Hotel, Rewa Rd., Satna 485001.

MAHARASHTRA

Assoc. for the Welfare of Mentally Handicapped, 15A, Insurance Bldg., Horniman Circle, Bombay 400001 ; **Bhagini Seva Mandir Kumarika Stree Mandal,** Sarojini Rd., Vile Parle, Bombay 400056 ; **Canosa School Special Class,** M. Chotani Rd., Mahim, Bombay 400016 ; **Department of Spl. Education for Retarded,** Children's Orthopaedic Hospital, Clerk Rd., Haji Ali, Bombay 400034 ; **Dilkush Spl. School** (Convent), Church Rd., Opp. Theosophical College, Juhu, Santa Cruz, Bombay West 400054 ; **Govt. Certified School for Mentally Deficient Girls,** Sirur; Pune ; **Gujarat Research Society's Mentally Handicapped School,** Samshodan Sadan, South Avenue, Khar, Bombay 400052 ; **" The Haven " Residential School for Mentally Handicapped Children,** Mahakali Rd., M. I. D. C. Chakala, Bombay 400093 ; **Home for Mentally Deficient Children,** Mankhurd, Bombay 400088 ; **Jankiram Vidyalaya,** Ram Nivas, Sir Bhalchandra Rd., Matunga, Bombay 400019 ; **Karunalaya,** St. Xavier's High School, Church Rd., Vile Parle (West), Bombay 400056 ; **Indian Society for Mentally Retarded,** Malad West, Bombay 400064 ; **Mrs. Chandrika Kapadia,** Municipal School, 5/Meera, 18, Napean Sea Rd., Bombay 400006 ; **' Nandanvan ' School & Sheltered Workshop for the Mentally Retarded Children,** Matru Seva Sangh, North Ambazari Rd., Sitabuldi, Nagpur 440012 ; **S. P. J. Sadhana School,** Sophia College Campus, Bhulabhai Desai Rd., Bombay 400026 ; **School for Children in Need of Special Care,** Sewri Hill, Sewri Rd., Bombay 400015; 'Kamayani', 1187/64, J. Maharaj Rd., Pune 411005 ; **Shashi Mangalyam,** Opp. Theosophical Colony, 10-11, Juhu Rd., Santa Cruz (West), Bombay 400058 ; **Society for Vocational Rehabilitation of the Retarded,** Udyogalaya Swami Vivekananda, Kilchand Mansion, 298, Shamaldas Gandhi Marg, Bombay 400002 ; **Spl. Class,** St. Teresa Convent, Santa Cruz (West), Bombay 400054 ; **Spl. Class for Mentally Retarded Children,** Municipal School Bldg., Bajaj Rd., Kandivli (West), Bombay 400066 ; **Spl. Class for Mentally Retarded Children,** Bhanji Devshi Municipal School Bldg., Hingwala Lane, Ghatkopar (East), Bombay 400075 ; **Spl. Class for Mentally Retarded**

Children, Manilal Sundarji Municipal Gujarati School Bldg., Bombay ; **Spl. Class for Mentally Retarded Children,** Municipal School Bldg., Near Nare Park Maidan, Parel, Bombay 400012 ; **Spl. School for Sub-normal Children,** 123, Arun Chambers (First Fl.), Tardeo, Bombay 400034 ; **Spl. School,** Convent of Jesus & Mary, Clare Rd., Byculla, Bombay 400008 ; **Spl. School for Mentally Retarded Children,** Mumbadevi Municipal School Bldg., Kalbadevi Rd., Bombay 400002 ; **Spl. Therapeutic Class,** Child Welfare Committee, Maharashtra State Women's Council, Reveline St., Bombay 400001 ; **St. Andrew's High School,** Mangaldwar, St. Dominic Rd., Bandra, Bombay 400050.

PUNJAB & CHANDIGARH

Association for the Mentally Retarded Children, Kothi No. 1567, Sector 18/D, Chandigarh 160017 ; **Bharat Sevak Samaj School for Mentally Handicapped Children,** 4, Lake View, Nangal Township 140124 ; **Govt. Institute for E.S.N. Children,** Dept. for Mentally Handicapped Children, Govt. Post Graduate Basic Training College, Chandigarh 160017 ; **Govt. Institution of Special Education,** 1576, Sector 18-D, Chandigarh 160017 ; **Institute of Special Education (Society for Vocational Rehabilitation of Children and Adults),** 523/L, Model Town, Ludhiana 141001 ; **Modern Basic School,** Kucha No. 5, Field Ganj, Ludhiana 141001 ; **Special Class for Mentally Retarded Children,** Govt. Higher Secondary School, Jullunder 144005 ; **State College of Education,** Patiala 147001.

RAJASTHAN

Mentally Retarded Home for Women, Social Welfare Dept., Janata Colony, Jaipur 302001.

TAMIL NADU

Abagam Sathamangolan, Shivganj Rd., Madras 600001 ; **Ambagam** (Institution for the Mentally Handicapped Children), Race Course, Madurai 625002 ; **Anita School,** Balar Kalvi Nilayam, 2, Ritherdon Rd., Madras 600007 ; **Association for the Welfare of the Mentally Retarded,** Bala Vihar, Halls Rd., Kilpauk, Madras 600010; **Dr. G. D. Boaz Memorial Hospital School,** 29, Second Main Rd., Gandhinagar, Adyar, Madras 600020 ; **Institute of Pediatrics,** Govt. Gen. Hospital, Madras 600013 ; **Kamakoti** (School for the Mentally Retarded), 35/A, Sixth Main Rd., Raja Annamalaipuram, Madras 600028 ; **Mahabodhi Institute for Mentally Handicapped Children,** 10, Kennet Lane, Madras 600008 ; **Rehabilitation Department,** Govt. Mental Hospital, Madras 600010 ; **Sathamangalam,** Ambagam, Madurai 25013.

UTTAR PRADESH

Allahabad Y.M.C.A. Opportunity School for Sub-normal Children, 18, Strachey Rd., Allahabad 211001 ; **Association of the Parents of the Mentally Retarded,** Kashi Vidyapith, Varanasi 221002 ; **Chetna** (School for Mentally Handicapped Children), B-8, Nirala Nagar, Lucknow 226007 ; **G. C. M. School for Mentally Retarded Children,** Kashi Vidyapith, Varanasi 221001 ; **Govt. School for Mentally Retarded Children,** 195/196, Crown Gate, Jagat Narayan Rd., Lucknow 226003 ; **Steiner Bhawan,** Dehra Dun 248001 ; **Y.M.C.A. Opportunity School for Mentally Retarded Children,** 13, Strachey Rd., Allahabad 211001.

WEST BENGAL

Alakendu Bodh Niketan, 11/7A, Ramakrishna Das Lane, Calcutta 700009 ; **Asha Niketan,** 308, Acharya Profulla Chandra Rd., Calcutta 700009 ; **Ashahay Bandhab Gita Ashram Trust,** Press Town, Jagachha, P.O. Jagachha, Howrah Dist. ; **Ashutosh Institution,** 14, Rahim Ostagar Rd., West of Jadavpur Park, Calcutta 700095 ; **Bodhi Peet,** 20, Hari Nath Dey Rd., Calcutta 700009 ; **Calcutta Association for Mental Health,** 20, Hari Nath Dey Rd., Calcutta 700019 ; **Cheshire Home,** Burnpur 713325 ; **Cheshire Homes India,** 543, Raja Basanta Roy Rd., Calcutta 700029 ; **Day Care Centre,** C/o Bharat Scouts & Guides Headquarters, 2, Kyd St., Calcutta 700001 ; **Institute for the Mentally Deficient,** Calcutta 700034 ; **Psycho Lab.,** 15A, Sadananda Rd., Kalighat, Calcutta 700026 ; **Rehabilitation Centre,** Bon-Hooghly, B. T. Rd., Calcutta 700035 ; **Rehabilitation India,** 47/1A, Palm Avenue, Calcutta 700019 ; **Rudolf Steiner Society,** 204/5, Russa Rd., South 2nd Lane, Tully Gunj, Calcutta 700033 ; **Society for Child Health & Community Welfare and Alakendu Bodh Niketan,** 11/7A, Ramkrishna Das Lane, Calcutta 700009.

INSTITUTIONS FOR THE ORTHOPAEDICALLY HANDICAPPED

ANDHRA PRADESH

Aram Ghar, Indian Conference of Social Work, Red Hills, Hyderabad 500001 ; **Assoc. of Orthopaedically Handicapped,** Suryarjung Devdi, Yakutpura, Hyderabad 500023 ; **Crippled Children School and Hostel,** Amravati Rd., Guntur 522001 ; **Home for the Disabled,** Karwan Mangalhat, Hyderabad 500001 ; **Rani Chandramani Devi Children's Hospital,** Rehabilitation Centre for Handicapped Children, Laxmi Mahal, Vishakhapatnam 530003 ; **Shanti Ashram** (Hostel for Crippled Children), Shri Shanti Ashram, Vishakhapatnam 530003 ; **St. Mary's Polio Rehabilitation Centre,** Church of South India, B. No. 4, Khammam ; **Vocational Rehabilitation Centre for Physically Handicapped,** C. T. I. Campus, Vidyanagar, Hyderabad 500007.

BIHAR

Benilal Memorial Children's Hospital, P. O. Bairaganie, Muzaffarpur 842001 ; **Cheshire Home,** Meath Marg, P.O. Box 67, Ranchi 834001 ; **Crippled Children Institute,** Panchbati Hostel, Patna 800003 ; **Disabled Asscn. of Blind, Deaf and Dumb and Orthopaedically Handicapped,** Kankarbagh, Patna 800020 ; **Gurunanak Home for the Handicapped Children and Artificial Limb Centre,** Bariatu Rd., Ranchi 834001 ; **Rustomji P. Patel Cheshire Home,** Sunder Nagar, Tatanagar, Singhbhum Dist. ; **Shree Kameshwari Priya Poor Home,** Darbhanga 846004; **Virlang Bhavan** (Home for the Handicapped Children), Kankarbagh, Patna 800020.

DELHI

Child Guidance Society, 32, Rajendra Park, Shankar Rd., New Delhi 110005 ; **Department of Rehabilitation and Artificial Limbs,** All India Instt. of Medical Sciences, Ansari Nagar, New Delhi 110016 ; **Handicapped Welfare Federation,** 4, Talkatora Rd., New Delhi 110001 ; **Jawaharlal Nehru Instt. of Physical Medicine & Rehabilitation,** 4, Vishnu Digambar Marg, New Delhi 110001 ; **Kalawati Saran Children's Hospital,** New Delhi ; **Kiran Spl. School,** All India Instt. of Medical Sciences, Ansari Nagar, New Delhi 110016 ; **Occupational Therapy Home for Children,** 29-C, Ranjit Singh Rd., New Delhi 110001 ; **Rehabilitation**

Centre, Central Instt. of Orthopaedics, Safdarjang Hospital, New Delhi 110016 ; **School & Home for Mentally Retarded,** Shahdara, 32, Near Mental Hospital, New Delhi.

GOA

Goa Medical College, Panaji, Goa 403001.

GUJARAT

Apang Manav Mandal, Behind ATIRA, Ahmedabad 380015 ; **Baroda Cheshire Home,** Opp. Buddhadev Colony, Kareli Baug, Vadodara ; **Civil Hospital,** Ahmedabad 380016 ; **Home for the Crippled Children,** Bhaktinagar Stn. Rd., Udyognagar, Rajkot 360002 ; **Home for the Crippled Children,** Hira Villa, Lakkuwa Rly. Crossing, Vadodara 390001 ; **Methodist Boys' Home,** Godhra 389001 ; **Physio Occupational Centre,** Nandanvan, Near Town Hall, Ahmedabad 380006; **Shree Harilal Bhagwati Apang Sahay Ashram,** Near Wadaj Bus Stand, Ahmedabad ; **T. K. Polio Clinic & Physiotherapy Institute,** Pritinagar, Ahmedabad 380006.

HARYANA

Medical College, Rohtak ; **Saket Hospital,** Chandimandir, Ambala Dist.

HIMACHAL PRADESH

Centre for Orthopaedically Handicapped, Snowdown Hospital, H. P. Medical College, Simla.

KARNATAKA

Association of the Physically Handicapped, 11, Hennur Rd., Lingarajapuram, Bangalore 560005 ; **Cheshire Homes of India** (Bangalore Unit), H. A. L. Rd., Bangalore 560017 ; **C. H. I.** (Mangalore Unit), Toers's Lane, Kankandy, Mangalore 575002 ; **Janapada Seva Trust,** Melkote, Mandya 571401 ; **Lions Centre for Physically Handicapped,** Mangalore 575001 ; **Red Cross Home,** 2-3, Kensington Rd., Bangalore 560001 ; **St. Martha's Hospital,** Rehabilitation Centre, Bangalore 560009 **Tarabai Polio Ashram,** Dr. Mudaliar Bldg., Jed Galli, Shahapur, Belgaum 590001 ; **Vocational Rehabilitation Project,** Fr. Muller's Hospital, Mangalore 575002.

KERALA

CARE Home for Disabled Children, Pallithottom, Quilon 691001 ; **CARE Home for Disabled Children,** Punkunnam, Trichur 680001 ; **Cheshire Home,** Choolakkaparambil Road, Ernakulam. Cochin 682001 ; **Damien Institute,** Kozhukkully 680781 ; **Department of Physical Medicine & Rehabilitation,** Medical College, Trivandrum 695011 ; **Home for the Physically Handicapped,** Alleppey 688001 ; **Home for the Physically Handicapped,** 7/136, Tharakad, Palghat 678001 ; **Karthika Nair Smaraka Rehabilitation Centre,** Vellamkulam, Tiruvalla 689101 ; **Kerala State Industrial Co-op. Society for the Physically Handicapped,** Trivandrum 695011 ; **Rahamania School for Handicapped,** Calicut 673008 ; **Snehabhavan, Christ Craft Training Centre for the Handicapped Poor,** Irinjalakuda 680121 ; **Snehaniketan Social Centre,** Deena Sevana Sabha, Pattuvam, Taliparamba 670141 ; **Vikalaka Sevaka Co-op. Society,** Pattom, Trivandrum 695001 ; **Vocational Training Centre for Physically Handicapped,** Kunnukuzhi, Trivandrum 695001 ; **Vocational Training Centre for the Physically Handicapped,** Near Beach Hospital, R. C. Rd., Calicut 673001 ; **Vocational Training Centre for Physically Handicapped Women,** Salvation Army, Trivandrum 695003.

MADHYA PRADESH

Asha Niketan (Institute for the Rehabilitation of the Physically Handicapped), Private Sector E-6, Bhopal 462006 ; **Home for the Orthopaedically Handicapped Children,** 3/4, Raja Talab, Dave Bldg., Raipur 492001 ; **Home for Orthopaedically Handicapped Children,** Snehlata Gunj, Indore 452002 ; **Main Hospital,** Bhilai Steel Plant, Bhilai West ; **Orthopaedic Children's Home,** Pandarinaka, Raipur 492001 ; **Orthopaedically Handicapped Children's Home,** Bungalow No. 6, St. No. 5, Manorama Gunj, Indore 452001 ; **Paul Harris School for the Mentally Retarded Children,** C/o Physically Handicapped Children's Home, 1/3, Old Palasia, Indore 452001 ; **Vasudhaivakudumbkam,** Near Park Hotel, Rewa Rd., Satna 485001 ; **Vocational Rehabilitation Centre,** Corporation New Market, Napier Town, Jabalpur 482001.

MAHARASHTRA

All India Instt. of Physical Medicine & Rehabilitation, Haji Ali Park, Mahalaxmi, Bombay 400034 ; **Apang Shayyakari Sanstha,** 976, Sadashiv Peth, Pune 411030 ; **Apang Kalyan Kendra,** Junnar, Pune Dist. ; **Armed Forces Medical Rehabilitation Unit,** Range Hills, Pune 411020 ; **Beggars Home for Males,** Chimbhan Taji, Shirgonda, Ahmadnagar ; **Centre for Spl. Education,** Opp. Afghan Church, Upper Colaba Rd., Bombay 400005 ; **Cheshire Homes India,** Bethlehem House, Mahakali Rd., Andheri, Bombay 400093 ; **Fellowship of the Physically Handicapped,** Haji Ali Park, Mahalaxmi, Bombay 400034 ; **Govt. Home for the Crippled Children,** Kathole Sadan, Ramdaspeth, Nagpur 440001 ; **Govt. Home for the Crippled Children,** Near Water Works, P.O. Harsool, Aurangabad 431001 ; **Govt. Home-cum-School for the Crippled Children,** P.O. Miraj Killa, Miraj, Sangli ; **Govt. Sheltered Workshop for Crippled,** New Colony, Nagpur ; **Govt. Sheltered Workshop for Adult Physically Handicapped,** Sikchi Bhavan, Bhadakal Gate, Aurangabad ; **Happy Hours Play Way Centre,** C/o St. Sebastian School, St. Peter's Rd., Bandra, Bombay 400050 ; **Home for the Aged and Handicapped,** Untkhana, Medical College Rd., Nagpur 440009 ; **Jyoti Kendra,** 2, Usha Kiran, Carmichael Rd., Bombay 400026 ; **King George V Memorial After Care Centre,** Dr. E. Moses Rd., Bombay 400011 ; **Medical Appliances & Rehabilitation Clinic,** 17, Shahunagar, Jalgaon 425001 ; **Nagpur Association for Rehabilitation of Children and Adults with Orthopaedic Disabilities,** Ramdaspeth, Nagpur 440001 ; **National Socy. for Equal Opportunities for the Handicapped,** C/o Tata Dept. of Plastic Surgery, Balaram Bldg., Sir J. J. Group of Hospitals, Bombay 400008 ; **Paraplegic Foundation,** L. T. M. G. Hospital, Sion, Bombay 400072 ; **Queen Mary's Tech. School for Disabled Indian Soldiers,** Park Rd., Kirkee, Pune 411020 ; **Rehabilitation Centre for the Cancer Society,** Dr. E. Borges Marg, Parel, Bombay 400012 ; **S. E. C. Day School** (Society for the Education of Crippled Children), Municipal School, Agripada, Bombay 400011 ; **Sangli Industrial School,** Post Box No. 71, Sangli 416416 ; **School for the Bed-ridden Children in the Bai Jerbai Wadia Hospital,** C/o Tata Institute of Social Sciences, Sion Trombay Rd., Deonar, Bombay 400088 ; **Society for the Crippled Children,** Children's Orthopaedic Hospital, Haji Ali Park, Mahalaxmi, Bombay 400034 ; **Society for the Welfare of Physically Handicapped,** Wanori, Pune 411001 ; **Society for Rehabilitation of Paraplegics,** 'Dev Ashish', G. Deshmukh Rd., Bombay 400026 ; **St. Crispin's Home,** Yerandavna, Karve Rd., Pune 411004; **Vocational Rehabilitation Centre for Physically Handicapped,** C. T. I. Campus, Sion-Trombay Rd., Kurla 400070; **Wanless Hospital** (Orthopaedic Appliance & Rehabilitation Centre), Mission Hospital, Miraj.

ORISSA

Occupational Therapy and Rehabilitation Dept., Medical College, Berhampur 760001.

PONDICHERRY

General Hospital, Pondicherry 605101; **Jawaharlal Instt. of Post-Graduate Medical Education & Research,** Jipmer, Pondicherry 605006.

PUNJAB

All-India Pingalwara Society, Amritsar 143001; **Apahaj Ashram,** Gandhi Park, G. T. Rd., Jullunder 144001; **'Pingla Ghar',** (Home for Destitutes, Crippled and Invalids), Anath Seva Society, Near Gulab Devi, T. B. Hospital, Jullunder 144001; **Rehabilitation Dept. of Christian Medical College and Hospital,** Ludhiana 141001; **Sheltered Workshop for the Handicapped Persons,** Kalsia Ashram, Gill Rd., Ludhiana 141001.

RAJASTHAN

Centre for Rehabilitation for Physically Handicapped, General Hospital, Udaipur 313001; **Institute of Vocational Training for Adult Handicapped** (Indian Council of Social Welfare), Motidungri Rd., Adarsh Nagar, Jaipur 302004; **Occupational Therapy Department,** Sawai Mansingh Medical College, Jaipur 302001; **Rehabilitation Centre** (Orthopaedics), Department of Social Welfare, J. Nehru Hospital, Ajmer 305001; **Shangrila Workshop for the Handicapped,** Prabhu Marg, Tilak Nagar, Jaipur 302001.

TAMIL NADU

Anbu Nilayam (Cheshire Home), P.O. Covelong, Chingleput 603103; **Cheshire Home,** 10, Vallabhbhai Rd., Madurai 625002; **Coimbatore Cheshire Home,** Dowripalayam Rd., Pulumedu 641004; **Coimbatore Orthopaedic and Rehabilitation Centre,** Methupalayam Rd., Coimbatore 641011; **Disabled Association,** Deenabandhu, 15/2, K. K. St., Madras 600021; **Gabriel Rehabilitation Centre,** Mount Poonamallee Rd., Madras 600089; **Govt. Industrial Training Institute,** Madurai 625007; **Handicapped Rehabilitation Workshop,** 106A, Lloyds Rd., Madras 600086; **Iswari Prasad Dattatreya Orthopaedic Centre,** C/o Andhra Mahila Sabha, No. 3, Adyar Bridge Rd., Kumbakonam 600028; **Mercy Home,** 14, Halls Rd., Kilpauk, Madras 600010; **Red Cross Vocational Rehabilitation Centre for Adult Amputees,** Egmore, Madras 600008; **Rehabilitation Institute** (Occupational Therapist), Christian Medical College & Hospital, Bagayam, Vellore 632002; **Rotary Club of Kumbakonam,** Kumbakonam 612001; **Salvation Army Catherine Booth Hospital Vocational Training Centre for the Physically Handicapped,** Aramboly, Kanyakumari 629301; **Society for Aiding the Handicapped** (Kamakoti), 37-VIth Main Rd., Araparam, Madras 600028; **The Society for the Aid of Handicapped Children,** Krishnaswami Mudaliar Rd., Coimbatore 641002; **Society for the Welfare of the Handicapped,** 24, Hills Rd., Egmore, Madras 600008; **TELC Industrial School and Rehabilitation Centre,** P.O. Nagalnagar, Dindigul 624003; **Tamil Nadu Association for the Rehabilitation of the Handicapped,** 120, Thaiyappa Mudali St., Madras 600001; **Vellore Association for the Rehabilitation of the Handicapped (VARPH),** B/5, Industrial Colony, Katpadi.

UTTAR PRADESH

Clara Swain Hospital, Bareilly 243001; **Crippled Children's Centre,** Medical College Enclave, Park Rd., Allahabad 211001; **Handicapped Children's Relief Society,** Sponsored Rotary Club, Rampur, P.O. Jwalanagar 244901; **K. G. Medical College Artificial Limb and Prosthetic Workshop and Rehabilitation,** Lucknow University, Lucknow 226001; **Shivlal Handicapped Rehabilitation Assoc.,** 75/4, Chakanata Rd., Dehra Dun 248001; **Varanasi Assocn. for Rehabilitation of the Disabled,** B15/54, Faridpura, Varanasi 221001.

WEST BENGAL

B. C. Roy Polio Clinic & Hospital for Crippled Children, 39, Badan Roy Lane, Bilighaba, Calcutta 700010; **Cheshire Home (Children),** Tolly Gunge, Calcutta; **Cheshire Home,** P.O. Burnpur; **Cheshire Homes India,** 13, Upper Strand Rd., Serampore 712201; **Cheshire Homes India,** 543, Raja Basanta Roy Rd., Calcutta 700029; **Hospital for Crippled Children,** B. T. Road, Bon-Hooghly, Calcutta 700035; **Rehabilitation India,** 47/1A, Palm Avenue, Calcutta 700019; **Rotary Crippled Children's Clinic,** (attached to B. C. Roy Memorial & Children's Hospital), III, Narkeldanga Main Rd., Calcutta 700054; **Welfare Association for the Physically Handicapped,** 47/1A, Palm Avenue, Calcutta 700019.

Artificial Limb Centres

Artificial Limb Centre, Nilratan Sarkar Medical College, 138, Acharya J. C. Bose Rd., Calcutta 700014.

Artificial Limb Centre, Military Hospital, Pune Camp, Pune 411001.

Artificial Limbs Mfg. Corpn. of India, G. T. Rd., Kanpur 208016.

Sri Shankara Artificial Limbs & Aids Services, 14, Cambridge Rd., Someswarapuram, Ulsoor, Bangalore 560008.

INSTITUTIONS SERVING LEPROSY PATIENTS

ANDHRA PRADESH

Bethesda Leprosy Hospital, Narsapur 534275; **Evangeline Booth Leprosy Hospital,** P.O. Box 10, Bapatla 522101; **Gandhi Memorial Leprosy Foundation Unit,** Chilakalapalli, via Bobbili, Srikakulam Dist.; **Health Education Unit,** Cuddapah 516001; **Govt. Leprosy Hospital** (Training & Research Centre), Akkerampally, Tirupati 517501; **Leprosy Mission Hospital,** Vizianagaram 531202; **Health Education Unit,** Rajahmundry 533101; **Hospital Branch** (Mission), Akividu, W. Godavari Dist.; **Krupapalle Leprosy Home,** Kodur, Cuddapah Dist.; **Leprosy Church,** [illegible], W. Godavari Dist.; **Leprosy Control Unit,** Chilakalapalli, via Bobbili, Srikakulam Dist.; **Leprosy Home,** Salur Post, Srikakulam Dist.; **Leprosy Home,** Vizianagaram [illegible]; **Leprosy Investigation and Treatment Centre,** [illegible], [illegible] Dist.; **Leprosy Mission Home & Hospital,** Ramachandrapuram, E. Godavari Dist.; **State Leprosy Control Officer,** C/o Directorate of Medical Services, Sultan Bazar, Hyderabad [illegible];

Tikka Varan Sudarsanamma Memorial Govt. Leprosy Hospital, Nellore 525014; **Victoria Leprosy Hospital,** Dichapalli, Nizamabad Dist.

ASSAM

Mary Kirby Berry Memorial Clinic, Borbheta, Jorhat 785001; **Santipara Leprosy Home & Hospital,** Santipara, Bongaigaon 783380; **Shrimant Shankar Mission,** Nowgong 782001; **Special Leprosy Officer,** C/o A.D.P.H.'s Office, Gauhati 781001.

BIHAR

Bhagalpur Leprosy Asylum, Old Bhagalpur 812002; **Brambi Leprosy Institution,** Brambi, Ranchi 834001; **Gaya Leper Asylum,** Gaya 823001; **Kawakole Block S.E.T. Unit,** Nawada Sub-Division, Gaya; **Kushta Seva Samiti,** Kapasia, Kawakole, Gaya; **Laman Leprosy Hospital,** Monghyr 811201; **Leprosy Relief Association,** Dhanbad 826001; **Leprosy Mission Hospital,** Post Box 24, Muzaffarpur 842001; **Rajendra Seva Ashram,** Mairwa, Saran Dist.; **Rajkumari Kushta Dham,** Deoghar 814112; **Saldaha Leprosy Home & Hospital,** Saldaha, Majul Pahadi, Santal Parganas.

DELHI

Catholic Hospital Association, CBCI Centre, Ashok Place, New Delhi 110001; **Hind Kusht Nivaran Sangh,** Red Cross Rd., New Delhi 110001; **Kushtarogi Seva Samiti,** 15, Hardinge Avenue, New Delhi 110001; **Leprosy Home,** Taharpur 110032.

GUJARAT

Ansuya Leprosy Hospital, Sinor Taluka, Vadodara Dist.; **Anti-Leprosy Association,** Bharuch 392001; **Anti-Leprosy Association,** Vadodara 390001; **Ashram Leprosy Hospital,** Opp. Sardesais, Bilimora; **Gandevi Sahakari Samaj Seva Mandal,** Gandevi, Valsad Dist.; **Kushta Nivaran Dham,** Bhavnagar 364001; **Kushta Nivaran Mandal,** Navsari 396445; **Leprosy Hospital,** Datar Rd., Junagadh 362001; **Leprosy Control Units,** Valsad 396001; **Parvatibai Leprosy Infirmary and Lady Wilson Leprosy Clinic,** Ashwini Kumar Rd., Surat 395003; **Rev. Sister Agnes Kagrapeth Leprosy Hospital,** Outside Astodia Gate, Ahmedabad 380022; **Shri Menji Pathraj Kushta Nivaran Dham,** Bhavnagar 364001.

HARYANA

Leprosy Home, Ambala 133001.

HIMACHAL PRADESH

Palampur Leprosy Home & Hospital, Palampur, Kangra; **Subathu Leprosy Home & Hospital,** Subathu, Simla Hills.

KARNATAKA

Central Leprosarium, Magadi Rd., Bangalore 560002; **Hind Kusht Nivaran Sangh,** Mangalore 575001; **Holdsworth Memorial Hospital,** P. Box 38, Karnataka 570001; **Khangaon Kusht Nivaran Sangh,** Gokak, Belgaum Dist.; **Krupalaya Dispensary,** Guledgudd, Bijapur Dist.; **Leprosy Dispensary,** Kasthur, Mangala, Chamarajnagar; **Leprosy Hospital,** Belgaum 590001; **Mrs. Esther Muirhead Leprosy Orgn.,** 10A, Mugrath Rd., Bangalore 560001; **Navajeevan Nilayam,** Vavathur Rd., Bangalore 560001; **Rehabilitation Workshop,** St. Joseph's Hospital, Mangalore 575002; **Silver Jubilee Leprosy Hospital,** Sankeshvar, Belgaum Dist.

KERALA*

Damien Leprosy Institute, Kozhukully, Trichur 680781; **Govt. Leprosy Hospital,** Koratty; **Holy Cross Convent,** Kottayam; **Noornad Leprosy Sanatorium,** Noornad; **Leprosy Mission Chevayur Leprosy Sanatorium,** Chevayur, Calicut 673016; **Meppadi Rehabilitation Centre,** Good Shepherd Hospital, Vythri, Via Calicut; **Poor Leprosy Hospital,** Green Garden, Shertally, Quilon Dist.; **Salvation Army Evangeline Booth Leprosy Hospital,** Puthencruz, Ernakulam.

MADHYA PRADESH

Bethesda Leprosy Home and Hospital, Champa, Bilaspur Dist.; **Chaidipavri Leprosy Hospital and Homes,** P.O. Baitalpur, Bilaspur Dist.; **Govt. Leprosy Home and Hospital,** Raipur 492001; **Henderson Memorial Leper Hospital,** Dhar; **Kusht Seva Sanstha** (behind E.S.I.S. General Hospital), Nanda Nagar, Indore 462001; **Leprosy Home and Hospital,** Rajnandgaon, Durg; **Leprosy Home and Hospital,** Shantipur, Raipur Dist.; **Visarjan Ashram,** Anda, Durg.

MAHARASHTRA†

Acworth Leprosy Home, Wadala, Bombay 400031; **Anandwan Maharogi Seva Samiti,** Warora, Chanda Dist.; **Dattapur Leprosy Colony,** Amravati Post, Wardha Dist; **Gandhi Memorial Leprosy Foundation,** Hindinagar, Wardha; **Hind Kushta Nivaran Sangh,** Red Cross Bldg., 141, Mint Rd., Bombay 400001; **Kothara Leprosy Hospital & Home,** Achalpur, Amravati Dist.; **Kusht Pidit Navjeevan Seva Sangh,** Thane 400601; **Leprosy Hospital,** Poladpur, Kolaba Dist.; **Leprosy Hospital,** Nasik 422003; **Leprosy Clinic,** Alipur, Chanda Dist.; **Leprosy Committee,** 18, Wellesley Rd., Pune 411001; **Leprosy Health Education Unit,** C/o Director of Public Health, Pune 411001; **Leprosy Section,** Skin Dept., K.E.M. Hospital, Parel, Bombay 400012; **Maharogi Seva Samiti,** Warora, P.O. Anandwan, Chandrapur Dist.; **People's Medical Hall,** Jaya Mandir, Wardha 442001; **Plastic Surgery Unit,** J. J. Group of Hospitals, Byculla, Bombay 400008; **Pune Dist. Leprosy Cttee.,** Red Cross Blood Bank Bldg., 593/2, Rasta Peth, Pune 411011; **Richardson Leprosy Hospital,** Miraj 416410; **Skin Dept.,** Sassoon Hospital, Pune 411001; **St. Andrews' Leprosy Clinic,** Kagal, Kolhapur Dist.; **Vadala Leprosy Control and Gorapur Rehabilitation Project,** P.O. Vadala Mission, Ahmednagar Dist.; **Vidarbha Maharogi Seva Mandal,** Tapovan, Amravati 444603.

MANIPUR

Leprosy Centre, Bishenpur; **Leprosy Centre,** Imphal 795001; **Leprosy Centre,** Tamenglong; **Leprosy Centre,** Thoubal; **Leprosy Hospital,** Kongpokpi.

MIZORAM

Baptist Mission Dispensary, Lungleh 796106.

ORISSA

Hatibany Leprosy Colony, Sambalpur 768001; **Leprosy Asylum,** Baripada 757001; **Leprosy Clinic,** Hatigarh, Balasore Dist.; **Mayurbhanj Leprosy Home,** Baripada Mayurbhanj.

PUNJAB

Leprosy Home, Palampur, Kangra Dist.; **Leprosy Home and Hospital,** Tarn Taran 143401.

RAJASTHAN

All Saints' Health Centre, Kherwara, Via Udaipur.

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* In Kerala State 140 Survey Eradication Treatment Centres are functioning under Leprosy Control Units. † There exist Survey Education and Treatment (S.E.T.) Units at Sevagram, Wardha Dist.; Jamner, Jalgaon Dist. and three clinics each to the above units.

TAMIL NADU

Central Leprosy Teaching and Research Institute, Tirumani, N. Arcot Dist.; **C. S. I. Leprosy Centre,** Wandiwash, N. Arcot Dist.; **Charles Pease Memorial Leprosy Hospital,** Kanyakumari; **Cheshire Home,** "Vishranthi Illam", Kotpadi Township, North Arcot Dist.; **Dayapuram Hospital,** Manamadurai, Madurai; **G. D. M. Dispensary,** Kollegal, Coimbatore; **Gabriel Rehabilitation Centre,** Mt. Poonamallee Rd., Manapakkam, Madras 600089; **German Leprosy Centre,** Chetpat *via* Polur, N. Arcot Dist.; **German Leprosy Relief Assoc. & Leprosy Relief Work Emmaus Switzerland,** 29/C, Gajapathy Naidu St., Shenoynagar, Madras 600030; **Govt. Leprosy Centre,** Polambakam, Madurnatakam, Chingleput Dist.; **Hand Research Unit,** Christian Medical College & Hospital, Vellore 632001; **Health Education Unit for Leprosy*,** Thiruchirapalli Dist.; **Hind Kusht Nivaran Sangh,** 7, Veera Gardens, CIT Colony, Madras 600004; **Leprosy Control Unit,** Arkonam 631001; **Leprosy Control Unit,** Rasipuram, Salem Dist.; **Leprosy Home and Hospital,** [illegible], Tyagadrug, Chingleput Dist.; **Leprosy Relief, Control and Eradication,** Deenabandhupuram, N. Arcot Dist.; **Leprosy Relief and Control Scheme,** Walajah Taluq, Ranipet, N. Arcot Dist.; **Leprosy Office,** Tirukoilur, S. Arcot Dist.; **Memorial Leprosy Hospital,** Neyyoor Colachel, Kanyakumari Dist.; **Mission Hospital,** Kolan-Junai, *via* Saligramam, Ramanathapuram Dist.; **Mobile Dispensary,** Tambaram 600045; **Sacred Heart's Hospital,** Sakkottai, Kumbhakonam 612001; **Salvation Army Catherine Book Hospital,** Aramboly, Kanyakumari Dist. 629301; **Schiefflien Leprosy Research Sanatorium,** Karigeri, N. Arcot; **St. Joseph's Leprosy Home,** Tuticorin 628002; **St. Luke's Leprosarium & Rehabilitation Centre,** Peikulam, P.O. Asirvathapuram, Tirunelveli Dist.; **Swedish Red Cross Rehabilitation Centre,** Industrial Colony, Katpady Extn., North Arcot Dist.

UTTAR PRADESH

Almora Leprosy Home and Hospital, Chandag Heights, Pithoragarh 262501; **Faizabad Leprosy Home & Wellesley Bailey Children's Sanatorium,** P.O. Motinagar, Faizabad; **Hind Kusht Nivaran Sangh,** Dte. of Medical & Health Services, Lucknow 226001; **Leprosy Hospital,** Faizabad, Motinagar; **Leprosy Hospital** Naini, Allahabad Dist.; **Leprosy Hospital and Home,** Almora 263601; **Raphael Ryder Cheshire International Centre,** P. Box 157, Dehra Dun 248001; **State Leprosy Office,** Lucknow 226001.

WEST BENGAL

Bankura Leprosy Home & Hospital, P. Box 27, Bankura; **Gandhi Memorial Leprosy Foundation,** Sriniketan, Bolpur 731204; **Hind Kusht Nivaran Sangh,** 94, Chittaranjan Avenue, Calcutta 700012; **Leprologist,** 32/1, Radhakanta Jew Street, Shyambazar, Calcutta 700004; **Leprosy Control Work,** 5, Kyd. St., Calcutta 700016; **Leprosy Home and Hospital,** Purulia 723101; **Leprosy Hospital,** Kalimpong 734301; **Leprosy Office,** Health Staff Quarters, Asansol Mines Board, Asansol 713301; **Premannand Leprosy Dispensary,** Calcutta; **S. E. T. Units,** Sriniketan, Bolpur (Clinics under the unit are at (*a*) Sriniketan, (*b*) Bandhalodanga and (*c*) Sarbawandpur).

FAMILY WELFARE PROGRAMME

INDIA was the first country to adopt an official policy favouring family planning in 1951. During the period of the first two Plans (1951-61), the emphasis in India was mainly on research in the field of motivation, communication, demography, physiology of reproduction and on the extension of Central and State organisations for providing clinical services. There was, therefore, very little progress in the adoption of family planning. In 1962-63 the programme was reorganised and a new "Extension Approach" was adopted. The programme is, at present, treated as an integral part of overall socio-economic development and welfare activity and not merely as an isolated birth control scheme. This point of view was given a more concrete shape during 1974, the World Population Year. In March 1977, the Ministry of Health and Family Planning has been redesignated as Ministry of Health and Family Welfare, the Department of Family Planning as the Department of Family Welfare and the Family Planning Programme as the Family Welfare Programme. The objective of the Family Welfare Policy in India is to reduce the birth rate to 30 per 1,000 population by the end of 1984 from the present 33·4. The targets fixed for sterilisation under the Family Welfare Programme for the States and Union territories for the years 1976-77 and 1977-78 were 4,220,000 and 400,000, respectively.

Position in 1977-78 : The performance under different methods during the first six months of 1977-78 is 52 per cent lower in respect of sterilisations, IUCD's and users of conventional contraceptives compared to the corresponding period in the previous year. In view of the new emphasis on the voluntary nature of the sterilisation programme since April 1977 the term 'Voluntary Sterilisation' has been adopted in place of 'sterilisation'.

During the corresponding periods the performance of sterilisation decreased from 3·77 million in 1976-77 to 0·35 million in 1977-78 thereby showing a decrease of 90·8 per cent. During the period (April 1977-September 1977) 106,245 IUD insertions were effected as against 256,623 during the preceding year thereby registering a decline of 58·6 per cent. Conventional contraceptive users showed a decrease of 39·4 per cent whereas oral pills showed a record of 17·3 per cent increase over the corresponding period of the preceding year. Since the inception of the programme, 27·55 million sterilisation operations were performed and 6·75 million IUD's were inserted till the end of September 1977.

Administration : A full-fledged Department of Family Planning was created in April 1966, in the Ministry of Health and Family Planning. Now known as the department of Family Welfare, it is headed by the Secretary of the Ministry and an Additional Secretary who is also a Commissioner of Family Welfare. There is a Family Welfare Cabinet Committee presided over by the Finance Minister and the State Family Welfare Cabinet Committees headed by the Chief Ministers to ensure expeditious policy clearance and better co-ordination among different administrative wings. The Central Family Welfare Council is the supreme policy-making body. The Union Minister of Health presides over the Council, while all State Health Ministers and Secretaries are its members. Family Welfare Councils also function at the State level.

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* This Unit carries [illegible] work on leprosy at [illegible], Lalgudi, [illegible], Pudukottai and Ariyalur.

Allocation of Funds and Actual Expenditure During the Plan Periods

Period	Allocation of funds (in million Rs.)	Actual Expenditure (in million Rs.)
First Plan (1951-56)	6·5	1·45
Second Plan (1956-61)	49·7	21·56
Third Plan (1961-66)	270·0	248·60
1966-67	149·3	134·26
1967-68	310·0	265·23
1968-69	370·0	305·15
Fourth Plan (1969-74)	3,150·0	—
1969-70	420·0	361·8
1970-71	520·0	489·0
1971-72	606·0	617·6
1972-73	636·6	797·4
1973-74	534·5	578·6
1974-75	541·4	521·2
1975-76	969·5	865·4 (est.)

Camps : During the year 1971-72, mass vesectomy camps were organised on a large scale in India. The total number of camps organised during the year was 52 where 761,138 sterilisation operations were performed. In the year 1972-73 mass vasectomy camps were held in 210 districts in which two million sterilisations were performed. The policy of organising mass vasectomy camps has been discontinued since it was feared that it could be counterproductive.

Integrated Approach: Since 1973-74 a new approach which involves integration of health, family planning, maternity and child health (MCH) activities has been adopted and multi-purpose workers are being trained to perform all the integrated tasks. However, during the year 1974-75, the policy of mini camps was adopted. These camps are held at primary health centres, urban welfare centres and at district and tehsil hospitals. An extra expenditure of Rs. 5 per case is allowed.

Some Associations : Voluntary organisations have been recognised for playing an important role in the field of family welfare. Some of these are : the Family Planning Association of India, Indian Medical Association, Central Bharat Sevak Samaj, Indian Red Cross Society, Trained Nurses Association of India, Bharatiya Gramin Mahila Sangh, Indian Council of Social Welfare, the Christian Medical Association, the Rotary Clubs, the Lions Clubs, and the Junior Chambers of Commerce etc. Many of these voluntary organisations are represented on the Central as well as on the State family welfare councils.

Research : Research in demography, bio-medicine and communication is supported by the Government through suitable grants.

A high-powered committee called the Committee on Socio Economic Studies on Family Welfare has been constituted to go into different aspects of the family welfare programme. This committee advises and co-ordinates research on economic, sociological, educational, psychological, communicational and demographic aspects of population growth and family welfare. The Committee also reviews the progress of research work done and makes recommendations for development of research in these fields. It also reviews the working of the research centres dealing with population studies.

Number of Service Units for Family Welfare Programme (June 1976)

Facilities	Number
Family Welfare Centres	
(*a*) Urban Family Welfare Centres	1,075
(*b*) Rural Primary Family Welfare Centres	5,132
(*c*) Rural Sub-centres	33,370
(*d*) Other Institutions providing family Welfare services	5,780

The International Institute for Population Studies, Deonar, Bombay 400088 : is a regional centre for the training of demographers from India and other ESCAP countries. It is supported by the United Nations and the Government of India. Apart from teaching, the Institute undertakes researches in the field of population studies, including family welfare.

Demographic Centres : The National Institute of Health and Family Welfare, New Delhi, is responsible for undertaking family welfare researches. In addition, there are at present eight demographic research centres like : Institute of Economic Research, Dharwar ; Bureau of Economics & Statistics, Government of Kerala, Trivandrum ; Gokhale Institute of Politics and Economics, Pune ; Department of Statistics, M.S. University, Vadodara ; Indian Statistical Institute, Calcutta ; Institute of Economic Growth, Delhi ; Department of Statistics, University of Patna, Patna ; Institute of Social and Economic Change, Bangalore ; Department of Economics, University of Lucknow and Andhra University, Waltair.

Researches on family planning communication action research are being undertaken at the Institute of Rural Health and Family Welfare, Gandhigram ; Planning. Research and Action Institute, Lucknow ; Department of Statistics, Kerala University, Trivandrum ; and Indian Statistical Institute, Calcutta.

India Population Project : Since 1973, two experimental projects on family welfare have been initiated- The first project covers six districts of Uttar Pradesh and the second five districts of Karnataka. These projects will be run with assistance from the International Development Association to the extent of 21·2 million dollars in the form of a loan, and 10·6 million dollar grant from the Swedish International Development Authority. The emphasis in these projects is on the implementation of a maternity-based family welfare programme both in urban and rural areas. An attempt will also be made to assess the effect of supplementary nutrition on the acceptance of family welfare in one district each in the two States and to develop a better system of management, information and evaluation. The implementation of the field programme has been divided into three broad categories, namely, an urban programme in the cities of Lucknow and Bangalore ; an optional programme on the existing pattern in four districts of Uttar Pradesh and three districts of Karnataka ; and an intensive rural programme in two districts of each of the States. A population centre is attached to each of these projects. The main function of the Centre is to carry out experimental and innovative studies in the field of family welfare and to experiment with new management techniques.

Research in Reproductive Biology and Fertility Control is carried out at the Central Drug Research Institute, Lucknow ; All India Institute of Medical

Sciences, New Delhi; Rajasthan University; National Institute of Health & Family Welfare, New Delhi; Indian Institute of Science, Bangalore; Institute of Research in Reproduction, Bombay. The Indian Council of Medical Research provides technical advice and co-ordinates research work in the field of medical and bio-medical research.

Training: The training of family welfare instructors and key staff is undertaken by five training institutes, the National Institute of Health & Family Welfare, New Delhi; the Institute of Rural Health and Family Welfare, Gandhigram; the All India Institute of Hygiene and Public Health, Calcutta; the Family Welfare Training and Research Centre, Bombay; and the Central Health Education Bureau, New Delhi. 59 Family Welfare Training Centres at the State level are functioning. Each State has a Central Family Welfare Field Unit which undertakes ad hoc training programmes. In order to overcome the acute shortage of Auxiliary Nurse Midwives in some States, the Family Welfare Department opened 25 new ANM training schools in 1970-71 — ten in Bihar, ten in Uttar Pradesh and five in Orissa.

Oral Contraceptives:: The Technical Committee on Family Planning recommended in June 1971, that oral contraceptives may be tried both in urban and rural areas under some restricted conditions as an adjunct to the IUD programme. Oral contraceptives were distributed in 2,039 rural family welfare centres and 2,072 urban family welfare centres during 1977-78. 58,360 women were oral pills users at the end of September, 1977.

Copper T: The Government has agreed to include copper T as a new loop in its programme. The **Indian Medical Research Institute** has found it effective. There are about 11,000 users of copper T in different parts of India, and its demand is likely to increase in the future.

Progress: Since the inception of the programme till September, 1977, 6·75 million IUD's and 27·55 million sterilisations had been performed. The rate of IUD insertions per 1,000 population was 10·3 and that of sterilisation was 44·3. Over 47·46 million pieces of condoms were distributed through the commercial distribution channel during April-September, 1977 and 45·61 million

Family Welfare Programme in India, 1976-77 : Performance and Proportion of Targets Reached for Sterilisation and IUD in the States and Union Territories

State/Union Territories	1976-77			
	Sterilisation	Percentage of target reached	IUD	Percentage of target reached
Andhra Pradesh	741,713	185·4	13,221	29·4
Assam	226,205	133·1	11,982	63·1
Bihar	572,566	229·0	17,193	19·0
Gujarat	317,083	158·5	28,172	88·0
Haryana	221,135	425·3	80,129	135·8
Himachal Pradesh	100,990	320·6	7,967	106·2
Jammu & Kashmir	15,794	50·9	6,009	34·3
Karnataka	431,397	176·4	31,391	43·6
Kerala	206,600	92·9	18,440	23·8
Madhya Pradesh	1,001,348	374·3	21,747	19·8
Maharashtra	862,480	153·5	15,195	56·3
Manipur	6,286	139·7	1,124	17·3
Meghalaya	7,523	214·7	1,089	72·6
Nagaland	—	—	—	—
Orissa	320,264	163·8	18,257	56·2
Punjab	139,384	299·8	38,063	110·3
Rajasthan	364,460	208·3	11,624	25·0
Tamil Nadu	569,756	114·0	33,041	93·1
Tripura	12,653	140·6	273	27·3
Uttar Pradesh	837,645	209·4	155,026	45·9
West Bengal	880,234	224·3	27,575	69·8
A. & N. Islands	1,428	285·6	260	86·7
Arunachal Pradesh	268	48·7	55	15·0
Chandigarh	2,590	129·5	2,627	87·6
Dadra & Nagar Haveli	695	115·8	22	—
Delhi	138,517	477·6	11,328	161·8
Goa, Daman & Diu	5,571	69·6	731	24·4
Lakshadweep	146	79·6	27	—
Mizoram	679	37·7	222	34·7
Pondicherry	8,030	151·5	1,390	26·4
All India	8,106,639	190·9	562,842	30·4

pieces through the free distribution system. It has been estimated about 24·68 million couples are effectively protected as a result of the family welfare programme, which is 23·4 per cent of reproductive couples. Corresponding percentages for sterilisations, IUD and conventional contraceptives (including oral pill and other methods) are 20·7, 1·4 and 1·3 respectively.

The impact of family welfare is seen in the reduction of birth rate from 41·7 in 1961 to 33·4 in 1977. According to the estimates of the Government of India, Ministry of Health and Family Welfare, a total of 32·10 million births have been averted till September, 1977, as a result of the family welfare programme.

Religion and Family Welfare : The religion-wise distribution of sterilisation and IUD insertions based on 1975-76 revised estimates of the Department of Family Welfare are given below.

Religion	Sterilized persons	IUD acceptors	Distribution in 1971 Census
Hindus	85·9	82·1	82·7
Muslims ..	8·1	7·2	11·2
Christians ..	2·9	2·4	2·6
Sikhs	2·3	7·0	1·9
Others	0·8	1·4	1·6
Total	100·0	100·0	100·0

New Legislations : The Medical Terminations of Pregnancy Act was passed in 1972 and is designed to substantially liberalise legal provisions to resort to abortion in cases where contraceptives fail to prevent conception. Roughly 2,192 hospitals in India provided this facility during 1977-78. Since the inception of the MTP programme, a total of 755,369 MTPs have been performed in the country upto September 1977. The highest number was in Uttar Pradesh (130,664) followed by Maharashtra (108,845).

According to the National Population Policy announced by the Government of India on April 16, 1976, it is proposed to raise the legal minimum age of females at marriage from 16 to 18 years. This measure, when brought into force, is likely to promote a decline in fertility. The government has also taken preliminary steps to introduce population education in schools and colleges.

According to the present government policy family planning will be pursued vigorously as a wholly voluntary programme and an integral part of comprehensive policy covering education, health, maternity and child care, family welfare, women's rights and nutrition.

Hindustan Latex Ltd.: (See Chapter on Government of India Undertakings).

(See Chapter on **State Associations** for State-wise list of Family Welfare Associations).

Percentage of Couples Effectively Protected by Various Methods upto September, 1977

State/Union Territories	Estimated no. of reproductive couples in the age group 15–44 (million)	PERCENTAGE OF COUPLES EFFECTIVELY PROTECTED			
		Sterilisation	IUD	Other methods	All methods
Andhra Pradesh	8·8	25·0	0·5	0·4	25·9
Assam	2·6	20·6	1·1	0·8	22·5
Bihar	11·8	12·5	0·6	0·5	13·6
Gujarat	5·1	24·8	1·3	1·8	27·9
Haryana	1·8	26·0	8·1	3·7	37·8
Himachal Pradesh	0·7	24·2	1·9	1·3	27·4
Jammu & Kashmir	0·9	9·0	1·7	0·8	11·5
Karnataka	5·4	19·7	1·3	1·1	22·1
Kerala	3·4	26·6	1·9	1·0	29·5
Madhya Pradesh	8·7	22·1	1·1	0·6	23·8
Maharashtra	9·9	34·6	0·5	1·2	36·3
Manipur	0·2	6·4	2·4	0·8	9·6
Meghalaya	0·2	7·22	1·2	0·8	9·2
Nagaland	0·07	0·8	0·0	0·0	0·8
Orissa	4·5	22·9	1·8	0·5	25·2
Punjab	2·2	20·1	5·0	3·7	28·8
Rajasthan	5·3	12·9	0·9	0·9	14·7
Tamil Nadu	7·8	26·4	1·1	1·3	28·8
Tripura	0·8	11·0	0·3	0·9	12·2
Uttar Pradesh	17·3	10·4	1·9	1·4	13·7
West Bengal	7·8	22·2	0·7	1·6	24·6
A. & N. Islands	0·02	14·0	2·2	0·6	16·8
Arunachal Pradesh	0·09	0·5	0·2	0·2	0·9
Chandigarh	0·05	17·1	12·9	28·0	58·0
Dadra & Nagar Haveli	0·01	11·9	0·2	0·7	12·8
Delhi	0·8	26·7	4·1	8·3	39·1
Goa, Daman & Diu	0·1	15·1	1·3	1·2	17·6
Lakshadweep	0·07	5·5	0·3	1·5	7·3
Mizoram	0·05	4·4	0·8	0·9	6·1
Pondicherry	0·09	30·3	4·4	1·7	36·4
All India	105·6	20·7	1·4	1·3	23·4

PUBLIC HEALTH

(For the addresses of the Research Institutes mentioned in this chapter please refer to "Research" chapter)

HEALTH programmes are primarily the responsibility, of the State Governments. The Centre is, however, directly responsible even for the State subjects in the Union Territories.

Outlay on Public Health and Medical Programme

(Rs. Million)

Period	Central	Centrally spon-sored	States	Union Terri-tories	Total
Third Plan	148·3	54·6	1,932·4	123·3	2,258·6
1966-69 (anticipated)	167·6	111·4	1,052·4	69·7	1,401·1
Fourth Plan	535·0	1,765·0	1,842·4	192·9	4,335·3
Fifth Plan	676·6	2,681·7	3,458·3		6,816·6
1974-75	64·6	256·9	451·9	51·6	825·0
1975-76	87·7	352·2	458·0	52·6	951·5
1976-77	123·3	463·8	616·1	58·3	1,261·5

For the year 1977-78, the Planning Commission has recommended an outlay of Rs. 836·2 million, out of which Rs. 167·7 million (excluding outlays for Research Schemes) is for the Central Schemes and Rs. 668·5 million for Centrally Sponsored Schemes.

Rural Health: The Central Health and Family Welfare Ministry drafted a plan for the development and extension of health care services in the rural areas. At an expenditure of Rs. 4,860 million over the next four years it proposes to provide health services at the villager's doorstep through 580,000 community health workers and another 580,000 midwives after a short term training in the preventive and promotional aspects of health care. It envisages one man and one woman multipurpose worker for every 5,000 people by 1984-85. Manpower will be drawn from among those below 30 years with minimum formal education up to the sixth standard. The workers, covering every village with a population of 1,000 will be selected by the community itself and trained in groups of 20 for three months. The target of training 580,000 community health workers at the country's 5,372 community health centres is expected to be achieved in two years. Further, it has been suggested that there should be one doctor for every 1,000 of rural population.

Expectation of Life at Birth and Death Rates

Year	Expectation of Life at Birth		Death Rate per 1,000 population
	Males	Females	
1941-50 ..	32·5 years	31·7 years	27·4
1951-60 ..	41·9 years	40·6 years	22·8
1961-70 ..	46·4 years	44·7 years	15·7* (for 1970)
1971-75 ..	50·7 years	49·3 years	15·5* (for 1973)
1976-80 ..	53·8 years	52·6 years	15·9* (for 1975)

* Based on sample registration school data.

Sources: (i) The figures for 1941-50, 1951-60 and 1961-70 are based on Census estimates.

(ii) The figures for 1971-75 and 1976-80 are estimates based on the revised projections made by the Expert Committee appointed by the Government of India.

Air Pollution: The atmospheric polution in cities like Delhi, Calcutta, Bombay and Kanpur has increased between 50 and 100 per cent since 1957. This affects the health of the people. The National Environmental Engineering Research Institute, Nagpur is studying the effects of air pollution in Bombay. A national network of sampling for air quality has been set up in nine cities (viz. Delhi, Calcutta, Madras, Kanpur, Bombay, Ahmedabad, Hyderabad, Jaipur and Nagpur).

The Union Government has set up an expert committee to study the general problem of air pollution and to suggest ways and means including a draft legislation to control them. Government of India has decided to set up many stations to measure air pollution in all major cities. A beginning would be made with 10 of them being located in schools or colleges of Delhi with the help of teachers. A provision of Rs. 15 million was made in the Fifth Plan for water and air pollution control to meet the cost of establishment of a Central Water Board and for extending financial assistance to State Governments and Union Territories for necessary studies in this subject.

Cancer: About 425,000 people die every year from cancer in India. There are 84 centres where facilities for cancer treatment are available in the form of surgery, radium etc. The State-wise break-up is: Andhra Pradesh 7, Assam 4, Bihar 2, Delhi 6, Gujarat 5, Karnataka 6, Kerala 3, Maharashtra 15, Orissa 2, Punjab (including Haryana) 5, Rajasthan 6, Tamil Nadu 13, Uttar Pradesh 5, and West Bengal 5. During the Fifth Plan it was proposed to strengthen the treatment facilities by providing radiotherapy units at medical college hospitals and important district hospitals with Cobalt beam. A sum of Rs. 30 million had been provided. The Cancer Foundation had offered a donation of Rs. 4 million for setting up of a Rotary Cancer Hospital at the All India Institute of Medical Science, New Delhi.

Research is conducted at the Cancer Research Institute, Parel, Bombay; the Cancer Institute, 110, Mount Road, Madras 600018; the Chittaranjan National Cancer Research Centre, Calcutta; Radium Institute and Cancer Hospital, Hyderabad; J. K. Institute of Radiology and Cancer Research, Kanpur; International Cancer Centre, Neyoor, Tamil Nadu and S. N. Medical College, Agra. Field research stations for clinical facilities have also been established at Chandernagore, Hooghly, West Bengal and Madras. The Indian Council of Medical Research has started a study of cancer of the cervix at the Lady Hardinge Medical College and Safdarjang Hospital in New Delhi.

Cholera: The endemic areas are Andhra Pradesh, Bihar, Maharashtra, Karnataka, Orissa, Tamil Nadu and West Bengal. From 1st January to 31st October, 1976, 11,973 cases and 559 deaths were reported as against 21,995 cases and 2,320 deaths during the whole of 1975.

Priority is being given to provision of safe water supply and proper drainage under the National Water Supply and Sanitation Programme to the endemic areas. Preventive and surveillance measures are also being carried out. 32 cholera combat teams out of a target of 54 have been established so far.

Research studies on the various aspects of cholera are being carried out at the Cholera Research Centre, Calcutta in collaboration with the WHO; the School of Tropical Medicine, Calcutta in collaboration with the [illegible]

University, U.S.A.; the Central Drug Research Institute, Lucknow; the Haffkine Institute, Bombay; the Central Research Institute, Kasauli, Himachal Pradesh and at the National Institute of Communicable Diseases, Delhi.

In 1977 a new technological achievement was made in the control of cholera by introduction of oral glucose-saline powder (Chorosol). Also a cholera vaccine with aluminium phosphate adjurant was tried which was found to be very effective for children in the age group of 0 to 4 years.

Diabetes : The urban population in the country is more prone to diabetes than its counterparts in rural areas. On a rough estimate at the end of 1972 about 5·5 million people were suffering from diabetes in India. Of them, urban area's share was 3·3 million.

Filaria : The National Filaria Control Programme has been in operation since 1955-56. About 136·3 million Persons in the endemic areas are estimated to be exposed to filariasis. At present 142 Filaria Control Units and 12 Headquarter Bureaux are functioning in 15 States/Union Territories endemic for filariasis. These units have so far protected about 15·71 million people.

The headquarters of the programme is located at the National Institute of Communicable Diseases, Delhi. Training in filariology is being imparted at the Regional Filaria Training and Research Centres located each at Calicut (Kerala), Rajamundry (Andhra Pradesh) and Varanasi (Uttar Pradesh). These Centres are also responsible for the field evaluation of the programme, and research in various aspects of filariasis.

Goitre : Endemic goitre is a nutritional deficiency disease and is prevalent in the southern slopes of the Himalayas covering a distance of 2,414 kms. About 40 million people live on this goitre belt which consists of northern parts of Jammu and Kashmir, Punjab, Haryana, Himachal Pradesh, Bihar, West Bengal, Nagaland, Arunachal Pradesh and Manipur. The persons affected with goitre are estimated to be about 8 to 10 million.

The National Goitre Control Programme includes the manufacture of iodised salt at Sambhar Lake in Rajasthan, Kharaghoda in Gujarat and Calcutta. A fourth plant is likely to be set up at Gauhati, Assam.

During the year 1975, the Central Goitre Survey Teams conducted goitre surveys in Delhi, Shahjahanpur and Pilibhit districts of Uttar Pradesh and a resurvey to assess the impact of control measures in the Darjeeling district of West Bengal. From April to October, 1975 a quantity of 54,588 metric tonnes of iodised salt was produced at the three iodisation units and 57,820 metric tonnes of iodised salt was supplied to the goitre endemic areas.

During 1976-77, the Goitre Survey Teams conducted surveys in Madhya Pradesh, Delhi, Haryana and Sikkim States. Surveys were to be conducted in the Gounda district and in five blocks in Delhi, Bihar and Chandigarh during 1977-78.

Influenza : An Influenza Centre was opened in 1950 at the Pasteur Institute, Coonoor, Tamil Nadu, to undertake study of and research in problems relating to influenza. The centre co-operates with the World Influenza Centre, London and other influenza centres organized by the WHO in different parts of the world.

Leprosy : It has been estimated that 372 million people in India are exposed to leprosy. Estimate of the actual cases of leprosy is about 3·2 million of which only 20-25 per cent are of the infectious type. Of the 372 million people at risk, about 98 million have been covered and of 3·2 million cases 1·56 million have been recorded and put under treatment.

Under the National Leprosy Control Programme 324 Leprosy Control Units and 3,101 Survey, Eradication and Treatment Centres have been established for provision of medical facilities to leprosy patients on the domiciliary ambulatory method upto 1975-76.

The Central Leprosy Teaching and Research Institute, Chingleput (Tamil Nadu) undertakes research in the various problems concerning leprosy and promotes field studies for the application of the results of the research to control the spread of leprosy. It also functions as a centre for offering technical advice and guidance for the promotion of anti-leprosy work on sound lines. Training courses for medical officers, and for certain other auxiliary personnel, are conducted in this institute, the details of which can be had on application.

Assistance to certain research programmes is received from the WHO in the form of equipment and drugs.

Private organisations also take active part in controlling leprosy. These include the Leprosy Mission, Hind Kushta Nivaran Sangh (the Indian Leprosy Association), Gandhi Memorial Leprosy Foundation (for addresses refer to the chapter of 'Institutions for the Handicapped') and 3 R'Society, C/o Tata Dept. of Plastic Surgery, Balaram Bldg., J. J. Group of Hospitals, Bombay 400008. In addition four centres helped by international agencies are also functioning. They include the French Centre in Andhra Pradesh, ELEP Centre in Tamil Nadu, JALMA in Uttar Pradesh and Swedish Mission Hospital in Tamil Nadu.

The Reconstructive Surgery Programme is receiving increasing attention of the Government of India and leprosy patients with deformities of hands, feet and face get facilities of corrective surgery now in about 30 hospitals in India.

It is tentatively proposed to establish 12 Leprosy Control Units, 1500 S.E.T. Centres, 200 Urban Leprosy Centres, 20 Reconstructive Surgery Units, 4 Leprosy Training Centres, 80 Temporary Hospitalisation wards and 20 Districts/Zones Leprosy Offices, during the year 1977-78.

Malaria : India with 1,091,561 malaria cases (1965) is the worst affected country according to World Health Organisation. In the years 1974 and 1975, there were 3,167,658 and 5,166,192 cases respectively. During 1976 there were about 5,823,000 cases with 57 deaths. The National Malaria Eradication Programme which was started in 1958-59 has entered the 20th year of its operation during 1977-78. There are at present 393,250 NMEP units functioning in the country covering a population of 535 million. The remaining population reside in areas which were never malaria endemic.

The incidence of the disease which used to be 75 million cases per year in 1952 *i.e.*, 200,000 cases in a million population has been reduced to about 0·6 million total cases in 1970 *i.e.*, about 1,300 cases in a million population. But due to world-wide shortage of DDT and BHC, and increase in their prices, there was a shortage of spraying because of which malaria cases have increased to over 1·8 million cases annually (1975). The malaria mortality which was estimated in 1952 to be 0·75 million deaths or 2,000 deaths in a million population has become an extreme rarity. In order to tackle the growing incidence of Malaria a modified plan of operation at an estimated cost of Rs. 658·7 million per annum was approved in November 1976 to be implemented from April 1, 1977.

The National Institute for Communicable Diseases is responsible for research and field investigations and for the training of unit medical officers and district health officers in methods of malaria eradication. Other categories of health personnel are trained by the regional co-ordinating organisations established at Bangalore, Vadodara, Bhubaneswar, Hyderabad, Lucknow and Shillong.

Mental Diseases : At present there are 38 mental hospitals with accommodation for about 25,000 patients. About 1 million Indians suffer from mental sickness (1971).

The incidence of mental illness is on the increase because of increased stresses and strains of modern life. It was proposed to establish 50 psychiatric clinics in medical colleges during the Fifth Plan. The following is a list of mental hospitals in India :

Andhra Pradesh : Government Mental Hospital, Waltair ; Hospital for Mental Diseases, Hyderabad. **Assam :** Mental Hospital, Tezpur. **Bihar :** Hospital for Mental Diseases, Ranchi ; Ranch Manssika Arogya Shala, Ranchi. **Delhi :** Mental Hospital, Delhi. **Goa :** Mental Hospital, Panaji, Goa. **Gujarat :** Mental Hospital, Ahmedabad; Mental Hospital, Vadodara ; Mental Hospital, Bhavnagar ; Mental Hospital, Bhuj ; Mental Hospital, Jamnagar. **Jammu & Kashmir :** Mental Hospital, Srinagar. **Karnataka :** Mental Hospital attached to National Institute of Mental Health and Neuro Sciences, Bangalore; Government Mental Hospital, Dharwar. **Kerala :** Mental Hospital, Trivandrum ; Mental Hospital, Trichur ; Mental Hospital, Calicut, **Madhya Pradesh :** Mental Hospital, Indore ; Mental Hospital, Gwalior. **Maharashtra :** Mental Hospital, Thane ; Mental Hospital, Ratnagiri ; Central Mental Hospital, Yeravada ; Mental Hospital, Nagpur ; Private Hospital, Miraj. **Orissa :** Orissa Red Cross Mental Health Institute, Cuttack. **Punjab :** Mental Hospital, Amritsar. **Rajasthan :** Mental Hospital, Jaipur ; Mental Hospital, Jodhpur. **Tamil Nadu :** Government Mental Hospital, Madras, **Uttar Pradesh :** Mental Hospital, Varanasi ; Mental Hospital, Agra ; Mental Hospital, Bareilly ; Nur Manzil Psychiatric Centre, Lucknow. **West Bengal :** Mental Observation Ward, Calcutta ; Lumbini Park Mental Hospital, 24-Parganas ; Bangya Unmad Ashram, Calcutta ; Mental Hospital, Calcutta ; Bodhi Peet Mental Hospital, Calcutta ; Mental Hospital, Mankundu, Hooghly.

There are at present 51 institutions (25 Government and 26 private) for the **mentally retarded** and the **mentally handicapped**. The major centres are in : Chandigarh (1), Uttar Pradesh (5), Karnataka (2), Maharashtra (19), Tamil Nadu (1), Madhya Pradesh (1), Kerala (1), Gujarat (3), Delhi (7), Bihar (2) and Andhra Pradesh (2).

National Institute of Mental Health & Neurosciences, Bangalore 560027, is registered as a society and it is the premier institution of its kind in India. (see Chapter on " Education " for courses conducted.)

This institute is backed by a well-equipped hospital complex. It provides treatment in the fields of neurosurgery, neurology and psychiatry. A community psychiatric service in 50 surrounding villages and a project to probe " human consciousness " which includes a study of altered conscious states in the *Kundalini yoga* and after the use of drugs are among the schemes currently undertaken by the Institute.

Smallpox: As a result of intensive campaign carried out in 1974-75 with the help of the World Health Organisation, smallpox has been eradicated from the country. Smallpox was principally confined to 66 of India's 358 districts during 1974-75. About 76 per cent cases were reported from those districts. The principal foci were in north-central and north-east India in the States of West Bengal, Uttar Pradesh, Bihar and Madhya Pradesh. A separate focus was made in Jammu and Kashmir where major epidemics were occurring following introduction of the disease in spring of 1972. The maximum cases of smallpox were registered in the months of April and May followed by March, February, January and December. Minimum cases were registered in the month of October followed by September, August, July and June. Since July, 1975, no incidence of smallpox has been detected indicating the complete eradication of smallpox from the country.

During 1974-75 primary vaccination were given to 2·6 per cent of the population, and re-vaccination to 11·3 per cent of the population. A phased programme of covering 25 per cent of the population every year (5 per cent by primary vaccination and 20 per cent by re-vaccination) is being implemented.

Trachoma : Trachoma infection is highly endemic in the States of Punjab including Haryana (79·1 per cent), Rajasthan (74·3 per cent), Uttar Pradesh (68·1 per cent), and Gujarat (56·0 per cent). The States of Madhya Pradesh (41·3 per cent), Bihar (35·0 per cent), Assam (25·2 per cent) and Karnataka (22·6 per cent) are considered to be moderately endemic areas where the prevalence is more than 20 per cent but less than 50 per cent. The low endemic areas are the States of Jammu and Kashmir (16·8 per cent), Maharashtra (11·3 per cent), Kerala (8·7 per cent), Andhra Pradesh (5·3 per cent), Tamil Nadu (4·6 per cent), Orissa (2·7 per cent) and West Bengal (0·5 per cent).

About 9·0 million persons are estimated to be blind in India in comparison to the total world estimate of about 15 million. Trachoma and associated infections constitute the most important cause of preventable blindness.

The National Trachoma Control Programme was started in 1963. By the end of 1976, of the 329·3 million population at risk in 3,576 blocks/Primary Health Centres in the country, 217·93 million population in 2,603 blocks/Primary Health Centres had been covered under the programme. Additional 53·84 million population in 600 blocks/PHCs was to be covered during 1976-77 and about 27·36 million population in 347 blocks/PHCs during 1977-78.

Tuberculosis : There are at present 600 T.B. clinics in the country including 305 upgraded District T.B. Centres. Approximately, 42,500 T.B. beds have been established. There are 17 T.B. Demonstration and Training Centres.

It is estimated that the number of active cases is nearly 9 million of which 2 million are infectious. Almost all of the 3,119 towns and urban areas and 575,936 villages are affected by tuberculosis. The Government of India proposes to have one BCG team in every district. The 300 BCG teams currently functioning in various States and Union Territories have vaccinated 209·32 million people and tuberculin tests have been done on another 252·70 million upto October 1976.

The National Tuberculosis Institute of India, Bangalore 560003, established by the Government of India in 1959 is responsible for formulating and continuous evaluation of India's National Tuberculosis Programme. It carries out applied research in tuberculosis, epidemiology, bacteriology and BCG vaccination, sociological studies as well as operations research. This institute also arranges for the training of tuberculosis programme workers. There are two more research institutions at Madanapalle, Andhra Pradesh and Tamil Nadu. Training is also imparted at other institutions, such as Vallabhbhai Patel Chest Institute, Delhi.

Anti-TB drugs are being procured and supplied by the Government of India to voluntary organisations which operate TB clinics and supply such drugs free of charge to TB patients under their care. A target of 52 district T.B. centres and 3,500 isolated beds have been fixed.

Venereal Diseases : India has an estimated 20 million people suffering from V.D. which comes to nearly 20 per cent of the reproductive age group. About 5 per cent of the total population suffers from syphilis and an equal percentage from gonorrhoea. Yaws is prevalent in a few districts of Andhra Pradesh, Orissa, Madhya Pradesh and Maharashtra.

V. D. control schemes are sponsored by the Union Government, which gives all the money needed to the States and Union Territories. In India, 187 V.D. clinics function, whilst some hospitals have special wards for V. D. patients. A mobile V.D. unit at Safdarjang Hospital, New Delhi has started functioning since July 1973. Sufficient quantity of VDRL antigen is produced in the country. Between January and September, 1975, 260,819 V.D. cases were examined in the V.D. clinics. It is proposed to establish 14 new V.D. clinics in industrial towns, backward and tribal areas.

Training facilities are available in the V. D. Training Centre, Safdarjang Hospital, New Delhi and the Institute of Venereology, Government General Hospital, Madras. Apart from these institutions, few colleges have a venereological department.

National Water Supply and Sanitation Programme : This programme was launched in 1954. During the three Plan periods and three Annual Plans, about 418,700 new wells were constructed and 304,000 new hand-operated tube-wells were bored. In addition about 554,000 old wells were renovated.

Nearly 36,000 villages with a population of 21·6 million have been provided with water supply. For the water supply and sanitation sector the Fifth Plan had allocated Rs. 10·206 million against Rs. 4,105·3 million in the Fourth Plan. The proposed priorities were (*i*) to cover remaining 116,000 villages; (*ii*) to intensify efforts for provision of water supply in urban areas, (*iii*) to increase the efforts for the conversion of dry latrines into sanitary latrines and (*iv*) to increase efforts to provide and demonstrate modern methods of garbage collection and disposal.

The programme also provides for the training of public health engineering personnel. The training programme is being implemented at the Victoria Jubilee Technical Institute, Matunga, Bombay 400019, the All India Institute of Hygiene and Public Health, Calcutta, the Engineering College, Guindy, Tamil Nadu and the Engineering College, Roorkee, Uttar Pradesh. The Central Public Health Engineering Organisation (Goe Min. of Health and Fly. Welfare) has been set up for helping State Governments in the preparation and execution of their schemes and for giving technical advice and guidance. Similar organisations have also been established in most of the States.

HEALTH EDUCATION : The Central Health Education Bureau at Temple Lane, Kotla Road, New Delhi 110001, established in November 1956, co-ordinates and promotes health education in the country through Health Education Bureaux established in 20 States and 5 Union Territories.

The Bureau conducts a one-year Diploma in Health Education under the auspices of the University of Delhi and conducts in-service training programmes for health and family planning personnel. It conducts research on behavioural aspects of health and develops health education curricula for different age groups of students and teacher training courses. The Bureau organises exhibitions, maintains a film library and produces educational and publicity materials for National Health Programmes and programmes for promoting MCH, nutrition and immunisation and against the menace of food and drug adulteration.

Publications : The Central Health Education Bureau publishes monthly journals Swasth Hind (English) and Arogya Sandesh (Hindi) for general readers and Director General of Health Services Chronicle for medical personnel.

Availability of Health Services in India : 1960-61 to 1976-77*

Items & Units	1960-61	1970-71	1973-74	1974-75	1975-76†	1976-77‡	Targets for Fifth Plan
Hospital beds ('000)	186	266·2	281·6	286·8	293·5	299·8	321·6
Primary health centres (number)	2,800	5,112	5,250	5.317	N.A.	N.A.	5.351
Family Welfare centres (number)	1,649	36,800	33,000	35,274	N.A.	N.A.	44.036
Medical colleges (number)	57	95	99	104	105	106	105
Doctors ('000)	70	115·7	138	146	154	162·2	176
Nurses ('000)	27	77·8	88	93	98	103	123
Auxiliary nurses, midwives ('000)	19·9	57	60·3	59·3	N.A.	N.A.	70
Public health expenditure (Rs. million)	890	3,481	4,335·3	825·0	[illegible]	1,261·5	7,960

* *Sources* : 1. Draft of Fifth Five-Year Plan. 2. Ministry of Health and Family Welfare, Directorate General of Health Services, New Delhi.

† Anticipated. ‡ Targets.

Availability of Health Services in India : 1960-61 to 1978-79 per 100,000 Population*

Items	1960-61	1970-71	1973-74	1974-75	1978-79**
Doctors	15·9	21·5	23·7	25·0	27·1
Beds	42·4	49·4	49·6	49·0	49·6
Auxiliary nurses, midwives	1·4	10·6	10·4	10·5	10·8
Nurses	6·2	12·7	15·1	15·9	19·0

* *Sources* : 1. Draft of Fifth Five-Year Plan. 2. Ministry of Health and Family Welfare, Directorate General of Health Services, New Delhi.

** Estimated figures.

It also produces health education material — folders, pamphlets, posters, filmstrips, etc. for use by health personnel and the general public.

FOOD AND NUTRITION: Several measures are being taken to meet the nutritional deficiency of certain vulnerable groups such as industrial workers, expectant and nursing mothers and school children. Skim milk powder supplied by UNICEF and other organisations is distributed to children and expectant and nursing mothers. Mid-day meals are provided to about 13·1 million primary school children. Other schemes being implemented are protein supplement to the diet of the vulnerable groups, opening of canteens in industrial concerns and offices and manufacture and popularisation of cheap and nutritious food.

Malnutrition is one of the major factors responsible for high mortality and morbidity in India. Nutrition divisions have been established in Health Dept. of 18 States and two Union Territories to tackle the problem of malnutrition. These divisions assess the incidence of nutritional deficiencies among various groups, conduct nutrition education campaigns and supervise supplementary feeding programmes.

Quality control over food articles is exercised under the Prevention of Food Adulteration Act, 1954. Excepting Maharashtra, Assam and Kerala where the States have taken the responsibility, in all other States the work is left to the local bodies. The Director-General of Health has established a Food Squad under the Act to check adulteration of food at inter-state level.

The Central Food Laboratory, Calcutta, acting as an appellate laboratory under the Prevention of Food Adulteration Act, imparts training facilities to the analysts and inspectors of various States and local bodies.

Infant Mortality : India has 230 million children (1971 census) in the 0-14 age group. Of them, 92 million live below the poverty line. Most children suffer from malnutrition. The rate of child mortality in the rural areas is 131 per thousand births. According to United Nations Statistics infant mortality rate in India was the highest in the world in 1972 at 139 per thousand births.

INDIGENOUS SYSTEMS OF MEDICINE : The Central Council for Research in Indian Medicine and Homoeopathy at E25, Defence Colony, New Delhi 110024, constituted in the year 1969-70 is responsible for initiating, guiding and co-ordinating scientific research in different aspects, fundamental and applied, of Ayurveda, Siddha, Unani and Homoeopathy systems of Medicine and also for Yoga. The Central Council of Indian Medicine, New Delhi is responsible for ensuring uniform standards of education and the registration of practitioners of Indian system of medicine. There are 104 Ayurvedic colleges in the country.

MEDICAL EDUCATION : At the commencement of the Fourth Plan there were 93 medical colleges in the country. In 1976-77 there were 106 medical colleges with over 12,500 annual admissions. **The Doctor: population ratio** improved from 1 : 6,100 in 1961 to 1 : 3,634 in 1976.

(Refer to the " Education " chapter for a list of medica colleges.)

Training of Nurses : In 1974-75 there were 98,403 trained nurses in the country.

The number of training institutions for nursing personnel and of students under training at the end of 1974-75 were as follows :

The figures within brackets indicate the number of students : Nurses 262 (19,144) ; midwives 244 (4,780) ; auxiliary nurse-midwives 340 (12,393) ; health visitors 24 (1,631), B.Sc. (N) 8 (788).

Dental Education : There are now 15 dental institutions, all affiliated to universities, training students for the degree of Bachelor of Dental Surgery (B.D.S.), having facilities for about 600 admissions. Nine of these institutions have post-graduate degree courses leading to M.D.S. (Refer to the chapter on " Education " for the list of dental institutions.)

Pharmacy: (See chapter " Education " for institutes and/or universities teaching pharmacy.)

STATUTORY COUNCILS

Medical Council of India : Established under the Indian Medical Council Act of 1933 and reconstituted under the Indian Medical Council Act, 1956, this Council is responsible for the maintenance of the Indian Medical Register, uniform standards of medical education and for recognition of medical qualifications in the country. The **total number of doctors** on the Medical Register upto 31st December 1976 was 212,294.

Dental Council of India : This council was established under the Dentists Act of 1948 for the regulation of the profession of dentistry. It maintains uniform standards or dental education in the country. It also maintains the registers of qualified dentists, dental hygienists and dental mechanics, respectively. The number of dentists on the State Dentists Registers of the various State Dental Councils as on 1st April, 1977 was 6,609.

Pharmacy Council of India : Was constituted under the Pharmacy Act, 1948 to prescribe the minimum educational standards for qualification as a pharmacist, to ensure that these standards are uniformly enforced throughout the country and to recognise qualification in pharmacy granted outside the said Act which offered sufficient guarantee of the requisite skill and knowledged By 1971 the diploma courses in pharmacy were being conducted at 57 centres having annual admissions of 3,[illegible] and degree course in pharmacy at 26 centres having annual admissions of 805 per annum. The list of Pharmacy institutions is given under the chapter on Education.

The registration of pharmacists is the responsibility of the State Governments State Pharmacy Councils. By December, 1975 there were about 100,000 registered pharmacists of which about 9,000 had obtained the required academic qualifications.

Indian Nursing Council : This Council established under the Indian Nursing Act, 1947, is responsible for laying down uniform standards of nursing education.

The number of training institutions for nursing personnel and of students under training at the end of 1975-76 respectively were as follows: Nurses: 261 ; 19,884 ; midwives 241 ; 4,817 ; Health visitors 23 ; 1,841.

In 1975-76 there were 106,571 registered nurses.

Address : All above councils are housed in the Medical Council Building, Temple Lane, Kotla Road, New Delhi 110002.

(See chapter on **State Associations** for State-wise list of medical associations).

POPULATION

CURRENT Position : India's total population touched 628 million at the end of 1977. This represents an increase of 11·4 per cent since 1971 when the population was 548 million.

According to the Office of Registrar-General of India, the growth rate which was estimated to be 2·04 per cent during 1971–75, will decline to 1·97 per cent in 1976–80.

Census : Most of the population data in India are available from the Indian Censuses. The first synchronous Census of India was taken in 1881, and since then a census has been taken every tenth year. The last of the series is the Census of 1971 which gives the population count as of the sunrise of 1st April 1971. The previous censuses gave the population count as of the sunrise of 1st March, but the mid-term General Election of 1971 made it necessary to shift the census date by one month. The enumeration, therefore, started from 10th March and ended on 31st March, 1971. The households were revisited by the enumerators between 1st April to 3rd April 1971 to bring the picture up-to-date as on the sunrise of 1st April 1971.

Size: The 1971 Census of India enumerated 548,159,652 persons comprising 284,049,276 males and 264,110,376 females. The present census count fell short by about 13 million from the projected population of 560 million (1st March 1971). Compared to the world's population, India's population is around 15 per cent.

Growth : India's population which was 238 million in 1901 increased to 279 million in 1931 and to 548 million in 1971.

The rate of growth of India's population was slow till 1921 and since then it has tended to increase at a faster rate. During the 1911-21 decade the population decreased due to natural calamities and epidemics. In 1931 the population increased by 11·0 per cent from the previous Census. During the decade 1961-71 the population increased by 24·8 per cent which is the highest increase observed so far.

Growth of Population from 1901-1971

Year	Persons	Per cent Decade Variation
1901	238,396,327	
1911	252,093,390	5·75
1921	251,321,213	(—) 0·31
1931	278,977,238	11·00
1941	318,660,580	14·22
1951	361,088,090	13·31
1961	439,234,771	21·51
1971	548,159,652	24·80

Future Growth : The recent increase in India's growth rate is due to a fall in death rate and not due to any increase in birth rate. Death rate has declined by nearly fifty per cent during the past 70 years. Reliable figures of birth and death rates are not available in India because of the deficiency of the registration data. Efforts are being made by the Registrar-General of India to improve the quality of the registration data and a scheme called the Sample Registration System has been launched in different parts of India. The object of the scheme is to have sample areas, both urban and rural, in different States and Union Territories and to obtain reliable birth and death data in these areas. Most reliable estimates, however, point out that the **Birth rate** in India in 1961 was around 43 and **Death rate** around 21 per 1,000 population. The sample registration system has estimated that birth rate in 1975 was 35·2 and the death-rate 15·9. The birth rate in the rural areas was 36·7 and in the urban areas, 28·5, whereas, the death rate was 17·3 and 10·2 respectively. It is estimated that the death rate might decline still further and reach the low level of 10 per 1,000 population by 1990 or so. Birth rate would, therefore, be the crucial factor in determining the future growth of India's population.

Expectation of Life and Death Rate : The expectation of life at birth for males and females in the country was 52·62 years and 51·55 years, respectively, as on September 1, 1977. (See chapter on Public Health).

State-wise Growth Rate : The decennial growth rate of 1961-71 shows that the highest rate was observed in the Union Territory of Chandigarh followed by Andaman and Nicobar Islands and Delhi. In case of States, the highest rate was observed in Nagaland followed by Tripura, Manipur, Assam and Haryana. The differential growth rate is due to differences in birth and death rates and in internal migration.

Age Structure : One of the consequences of high birth rate is that India has a very 'young' population. Nearly 42·0 per cent of India's population is below the age of 15 years and only 6·0 per cent of the population is aged 60 years and over.

Infant Mortality: (See chapter on Public Health).

Rural-Urban : A very large proportion of India's population lives in rural areas, and urban population has grown from about 9 per cent in 1881 to about 20 per cent in 1971. Leaving aside the Union Territories, the most urbanised State in India is Maharashtra, in which about 31 per cent of the population lives in urban areas. Assam, Himachal Pradesh, Nagaland and Orissa States have less than 10 per cent urban population.

Sex-wise Rural-Urban Break-up of Population

	Persons	Males	Females
Total	548,159,652	284,049,276	264,110,376
Rural	439,045,675	225,319,943	213,725,732
Urban	109,113,977	58,729,333	50,384,644

It is seen that 55·8 per cent of the urban population of India lives in towns having a population of 100,000 and more. The corresponding figure for 1961 was 50·2 per cent. The growth of population in towns of large size is generally greater than in medium and small towns. In case of Class V towns (population size between 5,000 to 9,999), however, the population decreased during the decade 1961-71. As per 1971 Census, there are only 9 cities which have population of one million and above and these are Calcutta, Greater Bombay, Delhi, Madras, Hyderabad, Ahmedabad, Bangalore, Kanpur and Pune.

The following nine metropolitan cities in India:—

1.	Calcutta Urban Agglomeration ..	7,031,382
2.	Greater Bombay	5,970,575
3.	Delhi Urban Agglomeration ..	3,647,023
4.	Madras Urban Agglomeration ..	3,169,930
5.	Hyderabad Urban Agglomeration ..	1,796,339
6.	Ahmedabad Urban Agglomeration	1,741,522
7.	Bangalore Urban Agglomeration ..	1,653,779
8.	Kanpur City Urban Agglomeration	1,275,242
9.	Pune Urban Agglomeration ..	1,135,034

A city is regarded as metropolitan when its population exceeds one million.

Population Growth in Metropolitan Cities during 1901-71

	Population (in '000)				Percentage growth over 1901
	1901	1951	1961	1971	
Calcutta U.A.	1,488	4,589	5,737	7,031	372·4
Greater Bombay	813	2,967	4,152	5,971	634·5
Delhi U.A.	214	1,437	2,359	3,647	1,603·3
Madras U.A.	594	1,542	1,945	3,170	433·3
Hyderabad U.A.	448	1,128	1,249	1,796	300·6
Ahmedabad U.A.	186	877	1,206	1,742	836·9
Bangalore	159	779	1,200	1,654	939·8
Kanpur U.A.	203	705	971	1,275	528·8
Pune U.A.	164	606	791	1,135	591·6

U.A. = Urban Agglomeration.

Some Demographic Characteristics of India, States and Union Territories

	Population (in '000)		Decennial growth rate	Sex-ratio (females per 1,000 males) 1971	Density of population per sq. km. 1971	Literacy Rate			Urban population in 1971 (per cent)
	1961	1971				1961	1971	Percentage increase	
INDIA	4,39,234	5,48,160	24·80	930	178	24·03	29·46	22·60	19·91
Andhra Pradesh ..	35,983	43,503	20·90	977	157	21·19	24·57	15·95	19·31
Assam	10,837	14,625	34·95	896	186	26·98	28·15	4·34	8·82
Bihar	46,447	56,353	21·33	954	324	18·40	19·94	8·37	10·00
Gujarat	20,633	26,697	29·39	934	136	30·45	35·79	17·54	28·08
Haryana	7,590	10,037	32·23	867	227	19·93	26·89	34·92	17·66
Himachal Pradesh	2,812	3,460	23·04	958	62	21·26	31·96	50·33	6·99
Jammu & Kashmir	3,561	4,617	29·65	878	N.A.	11·03	18·58	68·45	18·59
Karnataka	23,587	29,299	24·22	957	153	25·40	31·52	24·09	24·31
Kerala	16,904	21,347	26·29	1,016	549	46·85	60·42	28·96	16·24
Madhya Pradesh ..	32,372	41,654	28·67	941	94	17·13	22·14	29·25	16·29
Maharashtra ..	39,554	50,412	27·45	930	164	29·82	39·18	31·39	31·17
Manipur	780	1,073	37·53	980	48	30·42	32·91	8·19	13·19
Meghalaya	769	1,012	31·50	942	45	18·47	29·49	59·66	14·55
Nagaland	369	516	39·88	871	31	17·91	27·40	52·99	9·95
Orissa	17,549	21,945	25·05	988	141	21·66	26·18	20·87	8·41
Punjab	11,135	13,551	21·70	865	269	26·74	33·67	25·92	23·73
Rajasthan	20,156	25,766	27·83	911	75	15·21	19·07	25·38	17·63
Sikkim	162	210	29·38	863	29	—	—	—	9·37
Tamil Nadu ..	33,687	41,199	22·30	978	317	31·41	39·46	25·63	30·26
Tripura	1,142	1,556	36·28	943	149	20·24	30·98	53·06	10·43
Uttar Pradesh ..	73,755	88,341	19·78	879	300	17·65	21·77	23·34	14·02
West Bengal ..	34,926	44,312	26·87	891	504	29·28	33·20	13·39	24·75
Andaman & Nicobar Islands	64	115	81·17	644	14	33·63	43·59	29·62	22·77
Arunachal Pradesh	337	468	38·91	861	6	7·13	11·29	[illegible]	[illegible]
Chandigarh.. ..	120	257	114·59	749	2,257	51·06	61·56	20·56	90·55
Dadra & Nagar Haveli	58	74	27·96	1,007	151	9·48	14·97	57·91	0·00
Delhi	2,659	4,066	52·93	801	2,738	52·75	56·61	7·32	89·70
Goa, Daman & Diu	627	858	36·88	[illegible]	225	[illegible]	44·75	[illegible]	26·44
Lakshadweep ..	24	32	31·95	978	994	23·27	43·66	87·62	0·00
Mizoram	266	332	24·93	946	16	44·01	53·79	22·22	11·36
Pondicherry ..	369	472	27·81	989	983	37·43	46·02	22·95	42·03

Some Demographic Characteristics of India, States and Union Territories

State/Union Territories	Proportion of workers in 1971			Proportion of workers by industrial categories in 1971			Mean age at marriage in years in 1961	
	Male	Female	Total	Cultivator	Agri. labourer	Others	Male	Female
INDIA	52·50	11·85	32·92	43·34	26·33	33·33	21·6	15·8
Andhra Pradesh	58·22	24·16	41·39	32·18	37·93	29·90	22·2	15·3
Assam	48·83	4·66	27·96	55·86	9·92	34·22	25·7*	18·5*
Bihar	52·16	8·88	31·03	43·33	38·92	17·75	18·6	14·2
Gujarat	51·24	10·26	31·45	43·12	22·48	34·40	21·4	17·1
Haryana	47·27	2·41	26·44	49·08	16·21	34·71	—	—
Himachal Pradesh	52·43	21·69	36·95	70·64	4·17	28·19	21·7	15·6
Jammu & Kashmir	52·50	3·86	29·76	64·78	3·05	32·17	22·4	16·0
Karnataka	54·40	14·20	44·17	40·01	26·70	33·29	24·4	16·3
Kerala	45·00	13·49	29·12	17·80	30·70	51·50	26·1	19·7
Madhya Pradesh	53·74	18·65	36·72	52·86	26·56	20·58	18·4	13·9
Maharashtra	52·09	19·70	36·48	35·55	29·33	35·12	22·4	15·7
Manipur	45·31	23·62	34·57	67·00	3·65	29·35	24·7	19·8
Meghalaya	53·20	34·57	34·74	69·15	9·88	20·97	—	—
Nagaland	55·55	45·24	50·75	77·58	1·45	20·97	—	—
Orissa	55·32	6·81	31·22	49·16	28·28	22·56	21·8	16·3
Punjab	52·82	1·18	28·87	42·56	20·11	37·33	21·7**	17·5**
Rajasthan	52·09	8·34	31·24	64·92	9·31	25·77	19·1	14·2
Tamil Nadu	56·02	15·09	35·78	31·26	30·46	38·28	25·2	18·1
Tripura	49·43	4·83	27·79	54·41	19·97	25·62	24·0	16·2
Uttar Pradesh	52·24	6·71	30·94	57·80	19·95	22·25	18·8	14·4
West Bengal	48·83	4·43	27·91	31·97	26·46	41·57	24·2	15·9
Andaman & Nicobar Islands	62·10	4·53	39·55	13·77	4·69	81·54	25·1	16·9
Arunachal Pradesh	63·14	51·28	57·65	78·34	1·96	19·70	—	—
Chandigarh	53·96	5·70	33·29	29·26	14·78	55·96	—	—
Dadra & Nagar Haveli	55·43	38·96	47·17	72·45	16·96	10·59	—	—
Delhi	50·61	4·75	30·21	2·62	1·24	96·14	22·9	18·6
Goa, Daman & Diu	47·76	15·40	31·67	23·97	15·01	61·02	26·9	20·7
Lakshadweep	38·43	13·60	26·15	—	—	—	—	—
Mizoram	51·43	39·46	45·61	83·53	0·37	16·10	—	—
Pondicherry	48·65	10·94	29·90	11·85	32·81	55·34	—	—

* Former Assam State. ** Former Punjab State.

Some Demographic Characteristics of India's Population, 1891-1971

Year	Population (in million)	Density per square mile	Sex ratio (females per 1,000 males)	Percentage		Percentage of population by religion				Percentage of literate and illiterate population		Number of persons per household
				Rural	Urban	Hindu	Muslim	Christian	Sikh	Literate	Illiterate	
1891	235·9	184	958	90·5	9·5	72·2	20·0	0·8	0·7	5·8	94·2	5·43
1901	238·4	167	972	89·2	10·8	70·4	21·2	1·0	0·8	5·4	94·7	5·27
1911	252·1	175	964	89·7	10·3	69·4	21·3	1·2	1·0	5·6	94·1	4·95
1921	251·3	177	955	88·8	11·2	68·6	21·7	1·5	1·0	7·2	92·8	4·89
1931	279·0	195	950	88·0	12·0	68·2	22·2	1·8	1·2	9·5	90·5	4·97
1941	318·7	245	945	86·1	13·9	65·9	23·8	1·6	1·5	N.A.	N.A.	5·12
1951	361·1	302	946	82·7	17·3	85·0	9·9	2·3	1·7	16·7	83·3	4·90
1961	439·2	358	941	82·0	18·0	83·5	10·7	2·4	1·8	24·0	76·0	5·16
1971	548·2	470	930	80·1	19·9	82·7	11·2	2·6	1·9	29·5	70·5	5·46

Sex Ratio : There are more males than females in India. In 1961 the sex ratio was 941 females per 1,000 males and in 1971 it decreased to 930 females per 1,000 males. Differential mortality by sex may be responsible for this disparity in sex ratio. Only in Kerala and Dadra & Nagar Haveli the sex ratio is favourable to females and in other places it is favourable to males. In Assam, Haryana, Jammu & Kashmir, Nagaland, Punjab, Uttar Pradesh, West Bengal, Andaman & Nicobar Islands, Arunachal Pradesh, Chandigarh and Delhi the sex ratio is highly favourable to males where it is estimated to be less than 900 females per 1,000 males.

Literacy : Literacy which is defined as capacity to read and write with understanding in any language was as low as 5·8 per cent in 1891 and only 9·5 per cent in 1931. In 1971 it had increased to 29·5 per cent. Male literacy was found to be nearly 39 per cent and female literacy was found to be about 19 per cent. Rural areas have lower literacy rate than urban areas. Proportion of literates in the population of 5 years and more in age is 33·8 per cent, it being 43·4 per cent among males and 21·5 per cent among females.

Religious break-up : According to the 1971 Census 82·7 per cent of India's population belonged to the Hindu religion and about 11·2 per cent to the Muslim religion. The percentage of the Christians and the Sikhs was 2·6 and 1·9 respectively.

Religions	Number	Percentage to total population	Percentage increase in 1961–71
Hindus	453,436,630	82·73	23·71
Muslims	61,418,269	11·21	30·84
Christians ..	14,225,045	2·60	32·60
Sikhs	10,378,891	1·89	32·28
Buddhists ..	3,874,942	0·71	19·01
Jains	2,604,837	0·48	28·49
Scheduled Castes..	80,005,398	14·60	24·13
,, Tribes..	38,015,162	6·93	26·17

Age at Marriage : In India, age at marriage is very low because of the prevalence of child marriages. From time to time suitable legislations have been passed specifying the minimum age at marriage for boys and girls. Nevertheless, a sizeable number of boys and girls seem to be married below the specified minimum age. However, the age at marriage shows an increasing trend over the decades which is an indicator of social change.

Decade	Age at marriage	
	Males	Females
1921–31	18·4	12·5
1931–41	20·3	14·4
1941–51	19·9	15·4
1951–61	21·8	15·4
1961–71	22·7	17·2

Age at Widowhood : It was found in the 1911 Census that 17 per cent of the females were widows. This percentage declined to 15·5 in 1931 and to 11 in 1961. The mean age at widowhood of those who are widowed by age 45 was found to be 34 years in the 1951–61 decade and 34·8 years in the 1961–71 decade.

Fertility : The fertility of Indian women is high and between 6 and 7 children are born to a couple who remain married throughout the reproductive period. This average number is, however, reduced to 5 or 6 when all ever-married women, that is, those who are widowed, divorced or separated are considered.

The pattern of age-specific fertility among females between the ages 15-44 shows that highest fertility exists among females in the ages between 25 to 29 years. The fertility curve shows a low but significant rate in the ages 15-19 years, a sharp rise in the age group 20-24 and 25-29 and a sharp decline after the age of 35.

Of the children born in a year roughly 54 per cent are of first-three order births and 46 per cent are of the fourth and higher orders. About 20·2 per cent are first order births, 18·4 per cent second order, 15·8 per cent third order, 11·0 per cent fourth order, 10·9 per cent fifth order and 21·6 per cent sixth and higher order births.

There is some evidence to indicate that fertility of those women who are educated above Matriculation and also of those who marry after the age of 19 is lower than of those who are less educated or marry earlier.

Working Force : According to the 1971 Census, roughly 33 per cent of the population of India is in the working force. About 53 per cent of the males and 12 per cent of the females are workers. Slightly larger proportion of the rural population is in working force. The work participation rate by residence shows that 33·6 per cent of the rural population (53·5 per cent male and 13·1 per cent female) is in working force whereas 29·3 per cent of the urban population (48·8 per cent male and 6·6 per cent female) is in working force. The maximum participation rate is in age groups 25 to 59, it being around 95 per cent among males and around 20 per cent among females.

The work participation rate of 1971 cannot be compared with that of any of the earlier censuses because of change in definition. In the 1961 Census 43 per cent of the total population was recorded as workers. According to the Registrar-General of India, the concept of worker at the 1961 Census tended to inflate workers as persons who were basically non-workers like housewives, students, etc., were included in the category of workers even though their participation was very marginal.

Among the workers as given in the 1971 Census, nearly 43 per cent are cultivators, 26 per cent agricultural labourers and nearly 31 per cent are engaged in other occupations. In the rural areas nearly 52 per cent of the workers are cultivators, 31 per cent are agriculturar labourers and 17 per cent are engaged in other occupations. In urban areas nearly 5 per cent of the workers are cultivators, 6 per cent agricultural labourers and 89 per cent are engaged in other occupations.

First Six States Area-wise : Madhya Pradesh (442,841 sq. kms.) ; Rajasthan (342,214 sq. kms.) ; Maharashtra (307,762 sq. kms.) ; Uttar Pradesh (294,413 sq. kms.) ; Andhra Pradesh (276,814 sq. kms.) ; and Gujarat (195,984 sq. kms.).

First Six States Population-wise : Uttar Pradesh (88,341,144) ; Bihar (56,353,369) ; Maharashtra (50,412,235) ; West Bengal (44,312,011) ; Andhra Pradesh (43,502,708) ; and Madhya Pradesh (41,654,119).

Language-wise Break-up : 84 million people or 15 per cent, speak languages other than the 15 listed in the Constitution.

The break-down of the population in terms of the 15 Constitutional languages is as follows (figures in millions) : Assamese — 8·96 ; Bengali — 44·79 ; Gujarati — 25·87 ; Hindi — 208·51 ; Kannada — 21·71 ; Kashmiri — 2·50 ; Malayalam — 21·94 ; Marathi — 42·77 ; Oriya — 19·86 ; Punjabi — 14·11 ; Sindhi — 1·68 ; Sanskrit — 2,212 (persons) ; Tamil — 37·69 ; Telugu — 44·76 ; Urdu — 28·60.

Most Thickly Populated States : (excluding Union Territories) (figures per sq. km.) ; Kerala [illegible] ; West

Bengal (504); Bihar (324); Tamil Nadu (317); Uttar Pradesh (300); Punjab (269).

National Average Density : 178 per sq. km.

Density in Union Territories : (per sq. km.) (First three). Delhi (2,738); Chandigarh (2,257); Laccadive, Minicoy & Amindivi Islands (994).

Population Projections upto 2001 (in Million)

Year	Males	Females	Total
1971	284·1	264·1	548·2
1976	313·5	292·1	605·6
1981	345·3	322·9	668·2
1986	378·6	355·4	734·0
1991	412·6	388·6	801·2
1996	448·7	423·9	872·6
2001	485·3	460·1	945·4

The projected figures given above are of Medium 2 Projections prepared by the office of the Registrar General of India. It had prepared a set of six projections. According to the High-2 Projection, the population of India in 2001 will be around 1·03 billion. The Medium 2 Projections whose figures are given in the above table, assumes the birth rate which was 35·6 per 1,000 population during 1971-75, will come down to 30·5 during 1981–85, to 28·1 during 1986–90, and to 25·7 during 1996–2000. As a result of the decline in birth rate, the percentage of population in age group 0–14, which at the time of the 1971 census was around 41·5, will come down to 34·2 in 1991 and to 31·8 in 2001. The working age population in the age group 15–59 will, however, increase. Its percentage which in 1971 was 53·3, will increase to 60·5 in 1991 and to 61·0 in 2001.

IMPORTANT CENTRAL LEGISLATION (1976—Second Half)

1976

August : 3. The President enacted the Tamil Nadu Urban Land (ceiling and regulation) Act, 1976; **5.** The law restricting the acceptance of foreign contributions or hospitality by Indian citizens came into force; **17.** Rajya Sabha passed a statutory resolution extending President's rule in Nagaland by another six months from September 26 onwards; **18.** Rajya Sabha passed a statutory resolution extending President's rule in Tamil Nadu by another six months from September 10 onwards; The Lok Sabha passed the Bill defining India's territorial waters, continental shelf, contiguous zone and economic zone; **27.** Parliament approved the Factories Amendment Bill to improve industrial safety and promote welfare of workers; Lok Sabha passed a Bill on deposit linked insurance scheme which provides insurance cover to 8·4 million employees covered by the Provident Fund Act and the Coal Mines Provident Fund Act; **30.** Rajya Sabha passed a Bill titled Metal Corporation (nationalisation and miscellaneous provisions) Bill, 1976, providing for the take over of the management of the Metal Corporation.

September : 2. Parliament approved a Bill for payment of pension to members of Parliament when it passed the salaries and allowances of members of Parliament (amendment) Bill; **2.** Parliament approved the Central Sales Tax (Amendment) Bill which among other things grants exemption from State Sales Tax on certain commodities sold to export houses and export canalising agencies. **2.** Lok Sabha passed the Untouchability (Offences) Amendment and Miscellaneous Provisions Bill which makes the penal provisions more stringent; **3.** Parliament approved the Advocates (Amendment) Bill to abolish the dual system of advocates and solicitors prevailing in Bombay and Calcutta High Courts; Lok Sabha approved a Bill to extend the life of the Kerala Legislative Assembly for six months from October 22; Parliament passed the Scheduled Castes and Tribes Orders (Amendment) Bill, 1976, to remove the area of restrictions for conferment of benefits to scheduled castes and tribes.

October : 29. The fundamental duties of a citizen were approved by the Lok Sabha for incorporation in the Constitution. A new chapter enumerating the duties was added by the 42nd Amendment.

1977

January : 3. Thirty-six of the 59 clauses of the Constitution (42nd Amendment) Act, 1976, which was passed by a special session of Parliament in October-November, 1976, and received the President's assent on December 18, came into force today.

April : 1. The Finance Bill, 1977, received the assent of the Acting President; **7.** The Lok Sabha passed a Bill enabling the acquisition of land for laying pipelines for the transport of minerals (besides petroleum) from one place to another; The Lok Sabha approved a Bill to restore to the press the privilege of publishing true reports of proceedings of Parliament without being exposed to any civil or criminal action; The Lok Sabha passed the Government of Union Territories (Amendment) Bill, which extended the life of legislative Assemblies of Goa, Daman and Diu and Mizoram for seven months beyond their normal term of five years; **10.** Parliamentary approval was accorded to the acquisition of Caltex interests in India when the Rajya Sabha passed the Caltex (Acquisition of shares of Caltex Oil Refining (India) Ltd., and of the undertakings in India of Caltex (India) Ltd.) Bill, 1977; **11.** The Rajya Sabha adopted the Disputed Elections (Prime Minister and Speaker) Bill as passed by the Lok Sabha.

June : 18. The Lok Sabha passed the Bill seeking to restore to the Supreme Court its powers to decide doubts and disputes relating to presidential and vice-presidential elections (This power of the Supreme Court was taken away by the 39th Amendment of the Constitution passed in 1975); The Lok Sabha passed the Additional Emoluments (Compulsory Deposit) amendment Bill.

August : 2. Parliament passed the National Highways (Amendment) Bill, 1977 approving the levy of a toll on all bridges costing more than Rs. 25 lakhs and built after 1st April 1976.

November : 28. The Lok Sabha passed the Advocates (Amendment) Bill restoring the democratic principle of elected chairman and vice-chairman for the Bar Council of India and the State Bar Councils.

December : 12. The Lok Sabha passed the Payment of Bonus (Amendment) Bill which provided the restoration of a minimum bonus of 8·33 per cent whether there was allocable surplus or not; **20.** The Lok Sabha passed a Bill increasing the number of judges in the Supreme Court from 13 to 17; The Lok Sabha passed the 44th Constitution Amendment Bill.

FOREIGN AID TO INDIA

FOREIGN EXCHANGE RESERVES

1960-61: Rs. 3,040 million; 1970-71: Rs. 7,320 million; 1971-72: Rs. 8,490 million; 1972-73: Rs. 8,470 million; 1975-76: Rs. 10,237·3 million.

AID GIVING COUNTRIES

United States: The total amount received from the U.S. up to Sept. 30, 1977 was $10,765·7 million or, at the current rate of exchange Rs. 86,125·6 million.

The various U.S. Govt. programmes under which the aid funds are disbursed and the amounts sanctioned for each programme up to Sept. 30, 1977 are shown in the next column.

Programme	Million dollars	Rupees at current rates (million)*
1. USAID Tech. Assistance Programme:		
(a) Development grants (not repayable) ..	461·0	3,688·0
(b) Loans (repayable in rupees or dollars) ..	148·1	1,184·8
2. USAID Development Loans:		
(a) Repayable in dollars ..	2,692·3	21,538·4
(b) Repayable in rupees	502·3	4,018·4
3. P.L. 480, Title I (grants & loans repayable in Rs.) ..	4,076·8	32,614·04†
4. P.L. 480, Title I Credits (repayable in convertible local currency or dollars)	423·8	3,390·4
5. P.L. 480, Title I Credits (repayable in dollars) ..	218·5	1,748·0
6. P.L. 480, Title II Donations (not repayable) ..	1,448·9	11,591·2
7. Emergency Flood & Famine Relief grants (not repayable)	5·5	44·0
8. Wheat Loan of 1951 (repayable in dollars) ..	243·7	1,949·6
9. Triangular Trade (repayable in Rs.)	5·8	46·4
10. U.S. Export-Import Bank loans (repayable in dollars)	539·0	4,312·0
Total	10,563·8	86,125·6

FY 1977 Programme: During the U.S. Fiscal year 1977 (Oct. 1, 1976 to Sept. 30, 1977), the U.S. Government provided: (a) dollar credit of Rs. 208·0 million ($26·0 million) for importation of 50,000 tonnes of vegetable oil under Title I of PL-480 Act, repayable in dollars over 40 years period with interest rate of 2 per cent during the first 10 years grace period and 3 per cent during the 30 years repayment period; and (b) donation of 485,822 tonnes of agricultural commodities under Title II of the PL-480 Act — wheat, protein foods, and vegetable oils, valued at Rs. 1,330·4 million ($166·3 million) including ocean freight — distributed through World Food Programme and U.S. private, non-profit voluntary agencies such as CARE and Catholic Relief Services, to combat malnutrition especially in children and pregnant and lactating mothers, to support 'food for work' programmes as part of rural development projects, and to help meet emergency relief requirements.

U.S.S.R.: The total volume of Soviet long-term economic credits to India exceeds 1,475 million roubles. This amount is being utilised for the construction of more than 75 industrial and other projects in India. Among these projects there are steel plants in Bhilai and Bokaro with the capacity of 4 million tonnes of steel per annum each, oil refinery in Mathura with the capacity of 6 million tonnes of crude oil per year, two oil refineries at Koyali and Barauni with a capacity of 3 million tonnes each, Heavy Machine Building Plant in Ranchi, Heavy Electrical Equipment Project in Hardwar, power stations, etc.

On April 27, 1977, the USSR sanctioned new 250 million roubles credit to India. This credit is repayable over a period of 20 years, including 3 years grace period, and will be utilised for a wide range of new projects in steel, coal and other industries.

On March 6, 1978, the USSR and India signed Intergovernmental protocol, which envisages co-operation between two countries in the construction of alumina plant with the capacity of 600 thousand tonnes per annum, blast furnace complex with the capacity of 1 million tonnes of pig iron annually, nickel and cobalt plant, etc. The Protocol provides for the preparation of long-term programme of economic co-operation between two countries.

Switzerland: (i) *Multilateral Development Aid:* Over 30 per cent of the Swiss development assistance is channelled through the U.N. specialised agencies like UNDP, FAO, WHO, UNICEF, etc., and through Asian Development Bank, etc. The major part of the relief and humanitarian assistance is channelled through the World Food Programme.

(ii) *Bilateral Development Aid to India: Loans:* Until Dec. 31, 1977, the Swiss Government had provided transfer credits to the extent of 265 million Swiss Francs, and a development loan of 35 million francs.

(iii) *Grants:* (a) *Technical Assistance:* From 1961 until 31 December, 1977, the Swiss Government had sanctioned a total of 72·7 million Swiss francs for development grants to India. For 1977, the amount was 4·6 million. The main fields of co-operation with India are cattle breeding and fodder development (Kerala, Punjab, Andhra Pradesh), minor irrigation (Maharashtra, Karnataka), scientific applied research (biochemistry IIT Delhi, electronics IISc Bangalore), tool-makers training (CSIO and NTTF), flour milling technology (CFTRI) and assistance to a number of technical schools, agricultural extension schemes, colleges and hospitals.

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* Rate of conversion: $1·00 = Rs. 8·00.

† Actual amount of P.L.-480 sale proceeds deposited by the Govt. of India under all rupee payable sales agreement totalled Rs. 22,430·8 million. Of this, actual amount utilised for Cooley Loans to private enterprises totalled Rs. 1,244·0 million, for loans and grants to Govt. of India Rs. 18,118·2 million, and for U.S. Govt. uses Rs. 3,068·6 million. Rupee loans to Govt. of India have been fully repaid pursuant to the Rupee agreement.

Note: The Rupee Agreement signed on February 18, 1974 between the Govt. of India and the U.S. Govt. provided for the disposition of U.S. owned P.L.-480 rupees held in deposit with banks and those prepaid by the Govt. of India under all outstanding loans repayable in rupees. Under the terms of the Agreement, the U.S. Govt. granted Rs. 16,304 million—roughly two-thirds of India's rupee debt to the U.S. — which have been used for financing various development projects during the first three years (1974-77) of India's Fifth Five Year Plan. (Roughly Rs. 8,000 million, mostly of non-P.L.-480 funds, were retained for U.S. Govt. uses.)

(*b*) *Relief and Humanitarian Assistance :* For 1977, the Swiss Government had allocated an amount of 3·0 million Swiss francs for various actions in India.

United Kingdom : British aid to India has been granted through the Aid India Consortium since its formation in 1958. From June 1958, all British aid to India is in the form of grants.

Upto 1977-78 an amount of £1,104·3 million has been paid to India as loan.

Major *British Aided projects* in India are : 1. Durgapur Steel Plant ; 2. Bharat Heavy Electricals Ltd., Bhopal ; 3. Security Paper Mill, Hoshangabad ; 4. Oil India Ltd., Duliajan (Upper Assam) ; 5. Fertiliser Plant, Namrup, Assam and (*a*) Indian Farmers Fertiliser Co-operatives, Kandla/Kalol ; (*b*) Southern Petro-chemicals Corporation, Tuticorin, (*c*) Mangalore Fertilisers & Chemicals, Mangalore ; 6. Sulphuric Acid Plant, Sindri, Bihar ; 7. Indian Petrochemicals Corporation, Vadodara ; 8. Cochin Shipyard Ltd., Cochin ; 9. Indian Oil Corporation — Pipe line Project ; 10. Bharat Coking Coal Ltd. — Longwell Mining Project ; 11. Neomer Ltd., Vadodara — Polypropylene Film Project ; 12. Shardlow India Ltd. — Automobile Crankshaft Project ; 13. News Print Projects ; (*a*) Hindustan Paper Corporation Ltd. ; (*b*) Mysore Paper Mills Ltd. ; 14. Industrial Phosphates Project—Hindustan Lever Ltd. ; 15. Automobile Tyre Project — Weston Ltd. ; 16. Rubber Chemicals — Alkali & Chemicals Corporation of India ; 17. Agreements to provide funds for construction of ships for Shipping Corporation of India, Scindia Steamship Company and Great Eastern Shipping Co.

Canada : The Canadian development assistance programme in India began in 1951 with grants of $10 million for food aid, $5 million for projects and equipment, and a small amount of technical equipment. Until the mid-60s the programme averaged around $25 million per year. Then, with the onset of the famine years, it grew rapidly to the $100 million level. From 1974–75 onwards, Canadian Aid is focussing specially on food grains, edible oils, fertilisers and small agricultural projects etc., keeping in view the Indian Govt.'s priority areas of development.

Commitments by Canada through the development assistance programme in India totalled $1,326·5 million as of the end (March 31) of fiscal year 1976-77. To this may be added export credits of $120 million, bringing the total programme of assistance to $1,446·5 million. Of the development assistance programme, which is administered by the Canadian International Development Agency, 64 per cent of commitments have been in the form of grants, and 36 per cent development loans (50-year maturity, 10-year grace period). The export credits, administered by Canada's Export Development Corporation, have been on concessional terms varying with conditions at the time the credits were given.

Of the total assistance programme the most important part of the programme has been food aid, which has been provided generally on a grant basis. Roughly 41 per cent of the programme has been food aid, and 86 per cent of the food aid has been wheat.

The next largest segment of the programme has been the supply of industrial commodities and fertilizers.

The other major portion of the programme is consisted of hydro-electric installations, communication facilities including satellite communications stations, and a synthetic rubber plant.

Technical assistance activities have included the provision of advisers in many fields and the training of around ,300 Indians in Canada.

In addition to the above there is an active and growing programme of activities by Canadian non-governmental organizations (NGOs) in India.

Canada has been the third largest bilateral donor to India, after the United States and the UK.

Projects which receive Canadian aid are : Idukki Hydroelectric Project (Kerala) ; Kundah Hydroelectric Project (Tamil Nadu) ; Synthetic Rubber Plant (Koyali, near Vadodara) ; bulk fertilizer handling equipment for the ports of Kandla and Calcutta ; oceanographic survey vessel for National Institute of Oceanography ; ONGC Line of Credit — a line of credit for the procurement of equipment and supplies by the Oil and Natural Gas Commission and Oil India Limited ; Earth Satellite Communications Station at Dehra Dun and Telecommunications Project — the provision of $40 million of telecommunications equipment and cables, and All India Co-ordinated Research Project for dryland agriculture.

Canadian Assistance to India during 1976–77 and Commitments* cumulative total in Canadian $ Millions

	1976-77	Cumulative Total
Grants		
Food	60·9	592·6
Fertilizers	—	20·2
Industrial commodities ..	—	100·4
Projects & equipment ..	—	129·2
Debt relief	—	6·2
Technical assistance ..	—	11·6
Total grants	60·9	860·2
Loans		
Food	—	32·8
Fertilizers	10·0	143·1
Industrial commodities ..	—	146·9
Projects & equipment ..	—	143·5
Total loans	10·0	466·3
Total Development Assistance Programme	70·9	1,326·5
Export Credits	—	120·0
Total Assistance	70·9	1,446·5

Australia : Australian bilateral aid to India from 1951–1975 totalled $A 112·3 million (Rs. 1,069·52 million). This has been in the form of outright grants under the auspices of the Colombo Plan. It has consisted of commodities such as wheat, fertilisers, copper, milk powder and wool; capital equipment for development projects ; the gift of cattle and sheep for establishment of breeding centres and technical assistance. During this period Australia has provided a total of 1,569 fellowships for Indian nationals to undertake post-graduate and specialised studies. 130 Australian experts have worked in India on short and long assignments.

The major projects in which Australia is currently collaborating with the Government of India are sheep and cattle breeding centres in Haryana, Assam and Karnataka. It is envisaged that Australian Development Assistance may be given to fodder seed and seed multiplication farms and also to the meat industry. In the past development assistance has been directed to such diverse fields as Irrigation, Railways and All-India Radio.

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* "Commitments" for Loans means signed loan agreements ; for Grants means allocations of funds by CIDA — generally ; but not always evidenced by a memorandum of understanding or exchange of letters.

Of the $A112·3 million expended by Australia, $A44·3 million has been on economic development and technical assistance while the balance, $A68 million, has been allocated to emergency food aid.

West Germany : Aid agreement signed between the two Govts. on Oct. 13, 1977 envisages an aid of Rs. 1,357·2 million (DM 360 million) to India. The break-up of the aid is as follows : Loan to Indian Development Banks to enable the import of capital goods for small and medium enterprises: Rs. 94·25 million (DM 25 million) ; capital goods assistance : Rs. 52·38 million (DM 13·894 million); commodity aid for financing import requirements of industrial equipment and accessories : Rs. 282·75 million (DM 75 million) ; and Debt relief loan of 50-year duration at 0·75 per cent interest : Rs. 113·1 million (DM 30 million).

Besides the above, provision has been made to extend aid to the Gujarat Narmada Valley Fertilizer project : Rs. 207·35 million (DM 55 million), Neyveli Lignite Corporation : Rs. 226·2 million (DM 60 million), Trombay Thermal Power Station expansion and requisition of oceanographic research ship from Fed. Rep. of Germany : Rs. 452·4 million (DM 120 million) and technical assistance (*a*) provision for scientific equipment to oceanographic research ship : Rs. 56·55 million (DM 15 million) and (*b*) establishment of a tool-room at Ludhiana : Rs. 37·7 million (DM 10 million).

Netherlands : In 1977 an amount of Dfl. 174 million (Rs. 600 million) has been made available in the form of a general purpose loan, while Dfl. 16 million (Rs. 55 million) was given as grant.

In addition to the above, debt-relief was given amounting to approximately Dfl. 27 million (Rs. 93 million) over the year 1977.

Belgium: The Belgian Government has signed an agreement with the Government of India granting an amount of 375 million Belgian Francs (i.e. US $ 11·719 million) state-to-state loan. This loan is free of reimbursement and interest during the first 10 years. After this grace period the reimbursement of this amount is to be effected in the following 20 years without any interest.

Denmark : India has signed a loan agreement with Denmark for a loan of Rs. 110 million (Danish Kroner 80 million). This amount will be utilised for the import of many items needed for the fisheries, fertiliser, petrochemical, rubber, electronics, etc. industries.

Besides technical co-operation is also rendered in various fields, such as animal husbandry, rural development, family planning etc.

Japan : During 1977 (as per agreements signed in the months of March and August — loans of 10,000 million yen and 20,000 million yen respectively) Japan has agreed to pay an amount of 30,000 million yen (Rs. 1,200 million) as commodity loan at an interest of 3·5 per cent. The loan is payable in 30 years with a grace period of 10 years. Another loan of 9,000 million yen (Rs. 360 million) has been agreed upon for financing projects in India.

Norway : Norway has stepped up its bilateral technical assistance, by way of grants, to India for the four-year period beginning 1978.

The quantum of aid for the coming 4 years will be : 1978 : N. krs. 100 million (Rs. 153·5 million) ; 1979 : N. krs. 120 million (Rs. 183·6 million) ; 1980 : N. krs. 140 million (Rs. 14·72 million) ; and 1981 : N. krs. 160 million (Rs. 245·4 million).

Norwegian assistance will be utilised for the development of fisheries, family planning, forestry, science and technology and import of commodities like fertilisers and paper.

Sweden : An agreement providing Swedish aid of Rs. 410 million (Skr. 240 million) to India was signed in May 1977.

Out of this assistance Rs. 180·0 million (Skr. 105·0 million) will be available for General Imports and Rs. 140 million (Skr. 80 million) will be available for imports into India of goods and services from Sweden. An additional Rs. 90·0 million (Skr. 55 million) will be provided for technical assistance programmes and projects.

The entire assistance committed for 1977–78 is in the form of an outright grant. ”

France : France has granted India aid amounting to French francs 3,605 million (Rs. 6,460 million). French assistance has been permitted for the establishment of the following projects, viz. the Haldia refinery, Nasik thermal station, Khetri copper mines, caprolactum and polyethylene factories at Vadodara, fertilizer factory at Haldia, Kalpakkam reactor and two heavy water factories.

During 1977–78 an agreement was signed by which India was given F.f. 200 million as project credit and F.f. 140 million as non-project credit.

The loan is repayable within a period of 28 years with 10½ years grace and the rate of interest payable is 3 per cent.

IMPORT AND EXPORT TRADE

FOREIGN Trade Figures : During 1976–77, India's exports recorded an impressive rise of 27·3 per cent to Rs. 51,458 million from Rs. 40,428 million in 1975–76 (Latest revised figures). On the other hand, imports declined by 3·6 per cent to Rs. 50,740 million during 1976–77. Consequently, India had a **trade surplus** of Rs. 718 million during the fiscal year ending March, 1977.

Trend of Exports

India's exports have been maintaining a buoyant trend since 1972–73. The yearly rise in exports was 22·5 per cent in 1972–73, 28·0 per cent in 1973–74, 31·9 per cent in 1974–75, 21·4 per cent in 1975–76 and 27·3 per cent in 1976–77. The composition of exports is presented in Table I. The figure for 1976–77 in this table may not agree with that given above which is a revised one for which no break-up is available.

According to provisional data exports improved by 2·1 per cent to Rs. 52,527 million during 1977–78.

Trend in Imports

According to provisional data, India's imports were higher by 14·9 per cent at Rs. 58,325 million during 1977–78, thus reversing the trend in 1976–77 when imports were lower by 3·6 per cent as compared to 1975–76.

Table II gives the composition of imports for selected years. The total for 1976–77 given in this table may not agree with the figure given above which is the latest revised value of imports for which detailed break up is not available.

Table I: India's Principal Exports

(Rs. in million)

Commodity	1969–70	1974–75	1975–76	1976–77
Jute manufactures	2,067	2,968	2,509	2,008
Tea	1,245	2,281	2,369	2,929
Cotton fabrics ..	697	1,589	1,612	2,540
Iron ore	946	1,604	2,139	2,385
Coir yarn & manufactures	134	179	190	240
Oil cakes	415	960	965	2,238
Leather & leather manufactures (except footwear) ..	815	1,450	2,015	2,635
Cashew kernels ..	574	1,182	961	1,060
Tobacco	334	822	984	1,021
Engineering goods	1,025	3,566	4,130	5,544
Coffee	196	514	667	1,141
Sugar	86	3,390	4,723	1,481
Pepper	162	345	339	382
Manganese ore ..	111	176	176	191
Raw cotton ..	147	152	413	270
Mineral fuel, lubricants etc. ..	95	204	370	327
Iron & steel ..	642	211	680	2,830
Chemicals & allied products ..	222	929	853	1,091
Fish & fish preparations	308	662	1,272	1,803
Art silk fabrics ..	36	184	154	289
Footwear	90	203	213	288
Vegetable oils ..	93	430	395	526
Cotton apparel ..	58	969	1,464	2,570
Handicrafts ..	710	1,866	2,520	4,024
Mica	152	182	147	174
TOTAL (including others)	14,133	33,288	40,428	51,432

Table II: India's Principal Imports

(Rs. in million)

Commodity	1969–70	1974–75	1975–76	1976–77
Cereals and cereal preparations ..	2,610	7,638	13,428	8,786
Cashew-nuts (unprocessed)	276	366	336	183
Fibres	1,111	671	730	2,034
Petroleum oil and lubricants ..	1,376	11,569	12,257	14,121
Animal and vegetable oils & fats ..	296	349	170	1,180
Fertiliser and fertiliser materials ..	1,173	5,889	5,918	2,612
Chemical elements and compounds	466	1,297	1,222	1,372
Dyeing, tanning and colouring materials	71	114	118	151
Medicinal & pharmaceutical products	183	342	363	421
Plastic materials, regenerated cellulose and artificial resins	84	184	195	273
Paper, paper board and manufactures	237	595	577	622
Non-metallic mineral manufactures ..	322	622	967	1,918
Iron & steel ..	815	4,237	3,119	2,197
Non-ferrous metals	745	1,787	1,004	1,598
Manufacture of metals	73	276	331	287
Non-electrical machinery, apparatus and appliances ..	2,804	4,035	5,767	6.587
Electrical machinery, apparatus and appliances	643	1,610	2,008	1,730
Transport equipment	512	1,312	1,571	1,474
TOTAL (including others)	15,821	45,188	52,652	50,739

Table III: Regional Pattern of India's Foreign Trade

(Rs. in million)

Region	Exports		Imports	
	Amount	% to Total	Amount	% to Total
1. West Europe ..	16,054	31·2	11,235	22·1
(*i*) E.C.M. countries	13,935	27·1	9,652	19·0
(*ii*) Other West Europe ..	2,119	4·1	1,583	3·1
2. Asia and Oceania	18,327	35·6	19,938	39·3
(*i*) ESCAP ..	12,503	24·3	11,950	23·6
(*ii*) Other countries	5,824	11·3	7,988	15·7
3. Africa	3,110	6·0	2,154	4·2
4. America ..	6,488	12·6	12,353	24·3
5. East Europe ..	7,322	14·2	5,017	9·9
GRAND TOTAL ..	51,432*	100·0	50,739†	100·0

* Including re-exports. † Including other countries.

Airborne Exports have registered a five-fold increase over the last five years. Exports in 1976–77 were worth Rs. 8,404 million against Rs. 6,336·7 million in 1975–76, Rs. 4,275·4 million in 1974–75, Rs. 2,656·3 million in 1973–74 and Rs. 1,746·5 million in 1972–73.

Airborne imports too have risen to Rs. 4,026·2 million in 1976–77 against Rs. 2,604·4 million in 1975–76, Rs. 2,184·2 million in 1974–75, Rs. 1,758·7 million in 1973–74 and Rs. 1,152·7 million in 1972–73.

The total volume of the airborne exports during 1976–77 stood at 68,923 metric tonnes worth Rs. 12,430·4 million. 17 per cent of the country's exports and 7 per cent of its imports are handled by airlines.

Regional Pattern of India's Foreign Trade (1976-77)

The regional pattern of India's foreign trade indicates that the countries of Asia and Oceania are our largest trading partners, accounting for 35·6 per cent of our exports and 39·3 per cent of our imports during 1976–77. Table III shows the regional pattern of our external trade.

I. STERLING AREA

A. Western Hemisphere : Bahamas Islands; Barbados; Bermuda; British Honduras; British West Indies and Tonga; Falkland Islands; Guyana; Jamaica; Leeward and Windward Islands and Trinidad and Tobago. Total 10.

B. Europe : Gibraltar; United Kingdom; Iceland and Irish Republic. Total 4.

C. Africa : Tanzania; Kenya; Uganda; Nigeria; Libya; Mauritius; Republic of Malawi; Seychelles;

Sierra Leone; South Africa; St. Helena; Swaziland; Ghana; Gambia Republic; Lesotho; Botswana and Republic of Zambia. Total 17.

D. Middle East: Aden; Cyprus; Malta; Pakistan; Jordan; Persian Gulf Ports (Others); Bahrein; Doha; Dubai; Kuwait and Muscat. Total 11.

E. Far East: Australia; Bhutan; Federation of Malaysia (including British Borneo) (Sabah), Sarawak and Straits Settlements (Malaya); Fiji Islands; Hong Kong; India; Maldive Islands; New Zealand; Sikkim; Sri Lanka; Western Samoa and Singapore. Total 12.

NOTE: For Export Houses, Export Banks, Export Credit and Guarantee Corp. Ltd., Export Firms, Export Inspection Council of India, see General Index under "E".

II. DOLLAR AREA

U.S.A.; Bolivia; Canada; Colombia; Costa Rica; Dominican Republic; Ecuador; Gautemala; Haiti; Liberia; Philippines; Honduras; Mexico; Nicaragua; Panama; El Salvador and Venezuela. Total 17.

III. O.E.C.D. COUNTRIES

(Organisation for Economic Co-operation & Development Countries).

Austria; Belgium; Canada; Denmark; Finland; France; West Germany; Greece; Holland (Netherlands); Iceland; Ireland; Italy; Japan; Luxembourg; Norway; Portugal; Spain; Sweden; Switzerland; Turkey; United Kingdom; U.S.A. *Special Status:* New Zealand and Yugoslavia. Total 24.

IV. REST OF THE WORLD

A. Western Hemisphere: Argentina; Brazil; Chile; Dutch West Indies (Paramaribo, Aruba, Curacao, Surinam and Antilles); French Guiana; Paraguay; Peru; Uruguay: French West Indies and Cuba. Total 10.

B. Europe: Albania; Bulgaria; Czechoslovakia; Finland; Hungary; Poland; Rumania; U.S.S.R.; Vatican City; Yugoslavia; German Democratic Republic and Monaco. Total 12.

C. Africa: Algeria; Burundi; Cameroun; Central African Republic; Chad; Congo-Leopoldville; Congo-Brazzaville; Dahomey; Ethiopia; Eritrea; French Somali Coast; Gabon; Guinea Republic; Ivory Coast; Malagasy Republic (Madagascar); Mauritania; Morocco; Niger; Portuguese Africa (Angola, Mozambique, Portuguese Guinea); Republic of Mali; Reunion Islands; Ruanda; Senegal; Somalia Republic; Spanish Morocco (Ceuta, Spanish West Africa Canary Islands); Sudan; Tangier; Togoland; Tunisia; Egypt; Upper Volta and Southern Rhodesia. Total 33.

D. Middle East: Afghanistan; Saudi Arabia; Iran; Iraq; Israel; Lebanon; Syrian Arab Republic and Yemen. Total 8.

E. Far East: Nepal; Cambodia; China; Democratic Republic of Viet Nam; Democratic Republic of Korea (North Korea); Formosa; Indonesia; Japan; Lagos; Macao; Mongolian People's Republic; Republic of Viet Nam; New Caledonia; New Hebrides; Pacific Islands not included elsewhere; South Korea; Tahiti; Thailand; Tibet; Timor and Burma. Total 21.

F. Countries with whom India has Rupee payment agreements: Bulgaria; Czechoslovakia; German Democratic Republic; Poland; Rumania and U.S.S.R. Total 6.

From Jan. 1, 1981, trade with Poland will be switched over to convertible currencies. In view of the changed conditions, the rupee trade with East European countries is being converted into free-foreign exchange through mutual consent.

Santa Cruz Electronics Export Processing Zone, Andheri East, Bombay 400096. It is a free trade zone created by the Ministry of Commerce, Govt. of India on Sept. 1, 1974 to encourage establishment of electronics industry for 100 per cent export, and to earn foreign exchange.

The Zone consists of an area of 38 hectares and it can accommodate 100 units: 50 in self built factories and 50 in Govt. built standard design factory. As on December 31, 1977, 79 applications have been approved for setting up units in the Zone. Taking into account applications withdrawn or cancelled, the number of net approved applications amounted to 36. The total exports made from the Zone since September 1, 1974 till December 31, 1977 were of the order of Rs. 66·9 million of which exports worth Rs. 41·2 million were made in 1977.

SEEPZ Administration grants import licences; do all import and export clearance by customs; provide assistance for telephone connections, power supply, municipal clearances, industrial raw materials, technical guidance and market information on electrical products etc.

Chairman, SEEPZ Authority: Rao Sahib C. R. Krishnaswamy; *President, SEEPZ Board:* P. K. Kaul; *Devpt. Commr., SEEPZ:* B. N. Makhija; *Director:* A. S. Sethi.

Export Inspection Council of India, World Trade Centre, 14/1B, Ezra St., Calcutta 700001.

Estd. by Govt. of India to advise the Govt. regarding the measures for enforcement of quality control and inspection in relation to commodities intended for export and to draw up programmes therefore with the object of improving the quality of export products and projecting a better image of India abroad. *Regnl. Offices:* Bombay, Cochin, New Delhi.

EXPORT PROMOTION COUNCILS

Basic Chemicals, Pharmaceuticals and Cosmetics Export Promotion Council, 7, Cooperage Rd., Bombay 400039. Tel: "Chemexcil"; *Branch Office:* No. 22, III Main Rd., Gandhinagar, Bangalore 560009; *Overseas Correspondent:* Kirit M. Shah, C/o Indian Trade Representative, 545/547, Merchant St., Rangoon, Burma.

Cashew Export Promotion Council: Chittoor Rd., Ernakulam, Cochin 682016, India.

Chemicals and Allied Products Export Promotion Council: 14/1B, Ezra St., Calcutta-700001; Tel.: 021—2486; Gram: "Capexil". *Branch Offices:* (i) Commerce Centre, Block D-17, Tardeo Rd., Bombay 400 034; (ii) *Regional Office of Capexil:* 123, Mount Rd., Madras 600001; (iii) Luxmi Niwas, 8, Lady Hardinge Rd., New Delhi 110001.

Overseas Correspondents: (i) C. P. Gonnetilleke, 115, Dadidson Rd., Colombo 4, Sri Lanka; (ii) K. M. Shah, Post Box No. 383, Embassy of India, 545/547, Merchant St., Rangoon, Burma; (iii) M. K. Unnithan, Post Box 975, Bangkok, Thailand; (iv) Messrs. Dolly Enterprises, Post Box No. 16061, Hong Kong.

Cotton Textiles Export Promotion Council: Engineering Centre, Mathew Rd., Bombay 400004; Tel. "Texprocil"; Telex: 11/2166. *Branch Office:* (i) Jaldarshan Housing Society, Opp. Nataraj Cinema, Ashram Rd., Ahmedabad 380009; 14/1B, Ezra St., Calcutta 700001; (iii) 64-B, Dr. Alagesan Rd., Saibaba Mission, Coimbatore 641011; (iv) 101, Ashoka Estate, 24, Barakhamba Rd., New Delhi 110001; (v) C/o Madhya

Pradesh Textile Mills Association, No. 8, South Tukoganj, St. No. 1, Indore 452004.

Overseas Representatives : (*i*) M. Chakraborty, C/o Embassy of India, 545/547, Merchant St., Rangoon, Burma ; (*ii*) K. Vasudevan, Caltex House, 10th Floor, 167/187, Kent St., Sydney, Australia ; (*iii*) T. J. Jacob, Consulate General of India, Wilhelm Leuschner Str. 93, 6, Frankfurt/Main, West Germany ; (*iv*) St. James's Bldg., 79, Oxford St., Manchester (U.K.).

Engineering Export Promotion Council : World Trade Centre, 14/1B, Ezra St., Calcutta 700001. Phone : 345251 ; Tel. : "Oceanborne (c)" ; Telex : 021/7837, *Territorial Division :* Vandhna (Fourth Floor), 11, Tolstoy Marg, New Delhi 110001. *Regional Offices :* (*i*) Commerce Centre, Tardeo Rd., Bombay 400034 ; (*ii*) Surya Kiran, 19, Kasturba Gandhi Marg, New Delhi 110001 ; (*iii*) Kannamai Bldg., 122, Mount Rd., Madras 600006 ; (*iv*) World Trade Centre, 14/1B, Ezra St., Calcutta 700001.

Foreign Offices : (*i*) Indian Trade Representatives, Embassy of India, 545/547, Merchant St., Post Box 383, Rangoon, Burma ; (*ii*) Indische Technische Handelsberatung, 4, Dusseldorf, Immermanster — 59, West Germany ; (*iii*) 28/30, Cork St., London W-1 ; (*iv*) Room No. 104, St. George House, Parliament Rd., Nairobi, Kenya ; (*v*) Faber House, 236–D, Orchard Rd., Killiney, Singapore 9 ; (*vi*) 333, North Michigan Avenue, Chicago, Illinois-0601, U.S.A. ; (*vii*) Campos Rueda Bldg. (Rm. 502), 101, Tindalo St., Makati, Rizal, Philippines.

Export Promotion Council for Finished Leather and Leather Manufactures : 15/46, Civil Lines, P. O. Box 198, Kanpur 208001 ; Tel. : " Lexport " ; Telex : KEPC KP-286. *Branch Offices :* (*i*) ' Niranjan ', 2nd Floor, 99, N. Subhash Rd., Bombay 400002 ; (*ii*) 27, Mirza Ghalib St., Calcutta 700016 ; (*iii*) ' Marble Hall ', 3/38, Vepery High Rd., Madras 600003 ; (*iv*) Kiran, 9th Floor, 19, Room No. 905, Surya Kiran, 19, K. Gandhi Marg, New Delhi 110001.

Gem & Jewellery Export Promotion Council : D-15, Commerce Centre, Tardeo Rd., Bombay 400034. Telex : GJEPC 011–4360 ; Tel. : " Gejexcon ".

Handloom Export Promotion Council : 123, Mount Rd., Madras 600006 ; Tel. : " Gossamer " ; Telex : MS-7158.

Leather Export Promotion Council : Marble Hall 3/38, Vepery High Rd., Madras 600003 ; Tel. : " Lexprocil " Telex : MS-7354 — LEXIL.

Marine Products Export Development Authority : (Ministry of Commerce, Govt. of India) M. Gandhi Rd., Ernakulam South, Cochin 682016 ; Tel. : " Marine " ; Telex : (0885) 288.

Plastics and Linoleums Export Promotion Council : Nyloc House, 254-D2, Dr. A. Besant Rd., Bombay 400025. Tel. : " Plexconcil " ; Telex : 011/3940. *Regional Offices :* (*i*) 123, Mount Rd., Madras 600006 ; (*ii*) 14/1B, Ezra St., Calcutta 700001.

Processed Foods Export Promotion Council : 105, New Delhi House 27, Barakhamba Rd., New Delhi 110001. Tel. : " Profoodcil ".

Shellac Export Promotion Council : 14/1B, Ezra St., Calcutta 700001 ; *Deals in :* Seedlac, shellac and lac manufactures.

Silk and Rayon Textiles Export Promotion Council : Resham Bhavan, 78, Veer Nariman Rd., Bombay 400020 ; Cable : " Silkrayon " ; Telex : 011/3703 ; *Branch Offices :* (*i*) Resham Bhavan, Plot No. 3D/E, Lal Darwaza, Surat 395001 ; (*ii*) 3A, Diwan C. Mehra Rd., Amritsar 143001.

Spices Export Promotion Council : World Trade Centre, M. Gandhi Rd., Ernakulam, Cochin 682016.

Sports Goods Export Promotion Council : 1E/6, Jhandewalan Extension, New Delhi 110055.

Textiles Committee, (Min. of Commerce, Government of India) 79, Dr. A. Besant Road, Bombay-400018. *Regional Offices :* Ahmedabad, Bangalore, Calcutta, Coimbatore, Indore, Kanpur, Ludhiana, Madras, Madurai, Nagpur, New Delhi, Sholapur, Surat, Amritsar and Cannanore.

Wool and Woollens Export Promotion Council : Churchgate Chambers, 5, New Marine Lines, Bombay 400020. Tel. : " Woollens " ; Telex : 011/3922. *Regional Offices :* D. C. Residence Rd., Civil Lines, Ludhiana 141001; Ashoka Estate, Flat No. 714, Barakhamba Rd., New Delhi 110001.

BANKING

As many as 3,596 (1,690 in unbanked centres) new branches were opened between July, 1976 and June, 1977 (against 2,554 during the previous year). Of these, 1,540 branches were opened by 14 nationalised banks, 591 by the State Bank of India and its subsidiaries, 784 by private sector banks and 668 by regional rural banks. The total number of bank offices stood at 24,802 on 30th June, 1977.

With the upsurge in rural banking there has been a significant diversification of bank credit to previously neglected sectors such as agriculture, small industries, transport, professionals and self-employed persons, retail trade, export and food procurement. Bank credit to these sectors had gone up from Rs. 9,950 million in June, 1969, to Rs. 52,560 million in March 1977.

The total deposits of all scheduled commercial banks increased from Rs. 46,460 million in June, 1969 to Rs. 150,560 million in June, 1976 and to Rs. 175,570 million in June, 1977.

Average Population served by commercial banks improved from 26,000 at the end of June, 1976 to 22,000 at the end of June 1977. It is 5,000 in Britain, 7,000 in the U.S., and 15,000 in Japan.

Working Results of Public Sector Banks : An analysis of working results of 22 public sector commercial banks (*i.e.* State Bank of India, its seven subsidiaries and 14 nationalised Indian banks) reveals that their profits of Rs. 284 million for the year 1976 recorded an improvement of Rs. 55 million over that of 1975 as against an increase of Rs. 71 million in the previous year. The total income of these banks increased by 23·5 per cent during 1976 which was lower as compared to the rise of 25.4 per cent during 1975. The total expenditure of these banks rose by Rs. 3,015 million to Rs. 15,841 million compared to an increase fo Rs. 2,570 million in 1975.

State Bank Group : Total income of the State Bank of India reached Rs. 788 million in 1976 as compared to Rs. 753 million in 1975. The Bank's expenditure also increased by Rs. 776 million as compared to Rs. 734 million in the preceding year. Consequently, the profits of the State Bank of India at Rs. 78 million in 1976 recorded an increase of Rs. 13 million over the previous year.

The seven subsidiary banks of the State Bank had lower income during 1976 which was lesser by Rs. 130 million than in 1975. Since their expenditure also recorded a lower increase of Rs. 129 million, their profits showed a small increase of Rs. 1·6 million over the previous year.

Foreign Banks: Total income of 12 foreign banks increased from Rs. 1,195 million in 1975 to Rs. 1,258 million in 1976, showing a rise of Rs. 63 million. The profits of foreign banks thus showed an increase of Rs. 10 million over the previous year.

Nationalisation of Banks: 14 banks were nationalised by an ordinance on 20th July, 1969.

State-wise distribution of bank offices at the end of June 1975, June 1976 and June 1977

	Opened during 1975-76 (July–June)		Opened during 1976-77 (July–June)		Population per bank office (in thousands) as at the end of		No. of offices at the end of		
States & Union Territories	Total Centres	Of which unbanked centres	Total Centres	Of which unbanked centres	June 1976	June 1977	June 1975	June 1976	June 1977
1. Andhra Pradesh ..	177	60	294	149	28	24	1,373	1,550	1,844
2. Assam	57	17	91	52	56	41	214	263	354
3. Bihar	157	72	223	113	59	48	796	953	1,176
4. Gujarat	161	45	173	53	16	14	1,552	1,711	1,883
5. Haryana	92	42	74	38	19	17	438	530	604
6. Himachal Pradesh ..	28	17	44	25	16	15	181	209	253
7. Jammu & Kashmir ..	43	20	53	41	20	16	189	232	285
8. Karnataka	183	59	233	109	15	14	1,750	1,905	2,138
9. Kerala	177	71	232	153	14	13	1,296	1,473	1,705
10. Madhya Pradesh ..	137	37	197	85	40	33	914	1,050	1,247
11. Maharashtra	210	52	292	116	21	19	2,188	2,381	2,671
12. Manipur	3	1	10	6	83	47	10	13	23
13. Meghalaya	9	4	11	6	34	25	21	30	41
14. Nagaland	6	2	8	4	37	23	8	14	22
15. Orissa	81	47	147	94	57	41	301	382	529
16. Punjab	146	51	165	44	12	11	961	1,107	1,271
17. Rajasthan	87	23	145	78	29	25	792	877	1,022
18. Tamil Nadu	161	33	216	87	20	18	1,935	2,093	2,307
19. Tripura	4	2	25	19	65	32	20	24	49
20. Uttar Pradesh	322	124	501	216	40	33	1,896	2,218	2,714
21. West Bengal	227	66	310	141	34	27	1,090	1,317	1,626
Union Territories									
22. Andaman & Nicobar Islands	1	1	1	1	[illegible]	16	5	6	7
23. Arunachal Pradesh ..	3	3	1	1	47	43	7	10	11
24. Chandigarh	4	1	14	3	5	4	53	57	71
25. Dadra & Nagar Haveli	—	—	—	—	19	19	4	4	4
26. Delhi	58	2	92	28	6	6	563	619	709
27. Goa, Daman & Diu ..	14	5	37	25	6	5	140	153	190
28. Lakshadweep	—	—	1	1	8	6	4	4	5
29. Mizoram	1	1	2	1	166	83	1	2	4
30. Pondicherry	5	1	4	1	14	13	28	33	37
Total	2,554	859	3,596	1,690	26	22	18,730	21,220	24,802

Nationalised Banks: Names of 14 Banks and the names of chairmen and managing directors are given below:

Central Bank of India: *P. F. Gutta*; Bank of India: *H. C. Sarkar*; Punjab National Bank: *O. P. Gupta*; United Commercial Bank: *B. K. Chatterji*; Canara Bank: *C. E. Kamath*; United Bank of India: *Sumanta Niyogi*; Dena Bank: *M. N. Goiporia*; Syndicate Bank: *R. Raghupathy*; Union Bank of India: *B. L. Paranjpe*; Bank of Baroda: *R. C. Shah*; Allahabad Bank: *Amitabh Ghosh*; Indian Bank: *M. V. Subba Rao*; Bank of Maharashtra: *V. M. Bhide*; Indian Overseas Bank: *K. V. M. Yerkadithaya*.

Rural Indebtedness: As against the [illegible] need of Rs. 30,000 million by 1978-79 for rural indebtedness, national banks may be able to provide Rs. 17,000 millions. This includes about Rs. 3,000 — Rs. 3,150 million as consumption loans.

Selected data for Scheduled Commercial Banks

Item	June 1975	June 1976	June 1977
No. of offices	18,730	21,220	24,802
Aggregate deposits (Rs. million)	123,620	—	
Total bank credit (Rs. million)	89,630	—	
Credit deposit ratio (%)	72·5	—	
Investment in government and other approved securities (Rs. million)	40,620	—	
Investment deposit ratio (%)	32·9	—	
Cash in hand and balances with R.B. (Rs. million)	7,950	—	

Regional Rural Banks: During the year ended June, 1976, 20 regional rural banks covering 35 districts were opened. By December, 1976, another 30 were scheduled to be opened.

Meanwhile commercial banks continued the policy of expansion in unbanked and underbanked areas. In all 693 rural offices were opened between July, 1975, and April, 1976, against 559 offices in the corresponding period of 1974-75. At the end of April, 1976, there were 7,499 rural offices against 1,832 offices in 1969.

Progress of Banking

Item	June 1969	June 1977
BANK OFFICES (No.) ..	8,262	24,802
(*a*) Rural	1,832	9,536
(*b*) Semi-urban	3,322	7,210
(*c*) Urban	1,447	4,261
(*d*) Metropolitan centres ..	1,661	3,795

BULLION

GOLD: Quest for gold is centuries old, but, it has been available in any real quantity only for the last hundred and twenty-five years. The gold mined between 1492 and 1975, is estimated to be 80,000 tonnes. But more gold had been mined from 1800 to 1975 than in the preceding 5000 years, due to more discoveries in Brazil, Russia, California (U.S.A.), Australia and South America. More than three quarters of the total gold had been mined in the 20th century, and a little more than two-thirds of it since 1931.

International Price of Gold: The price of gold in free markets fluctuated between $124 an ounce in January 1976 to $132 in January 1977 and later went up to $160 in December 1977.

In January, 1975, the 126 countries of the International Monetary Fund (IMF) agreed to abolish the official price of gold, thus putting an end to the privileged role gold has been enjoying in the international monetary system since the end of the World War II.

The decision opened the way to the elimination of any reference to gold in the IMF statutes and amounted to a new step towards the release of gold stocks held by central banks.

The decision of the IMF to sell one-sixth of its gold to the market over a period of four years had a psychological impact on the Gold Market during 1976 and 1977; but in fact these sales represented less than eight per cent of total supplies.

World Gold Holdings: (In millions of Special Drawing Rights at 35 S.D.R.'s per fine ounce).

	1974	1975	1976 Sept. 30
Countries holdings ..	35,751	35,714	35,365
Official holdings ..	5,173	5,159	5,288

Source: International Financial Statistics.

Gold Consumption: Gold production in the free market in 1977 was 967 tonnes. With supplies from the Communist Bloc amounting to about 300 tonnes, the total supply was in the neighbourhood of 1,267 tonnes as against 1,255 tonnes in 1976.

The demand for gold touched 1,381 tonnes in 1970 while in 1973 it came down to 1,350 tonnes. Absorption of this in Europe was 780 tonnes and in the rest of the world 570 tonnes.

India absorbed about 63 tonnes in 1973 compared to 110 tonnes in 1972, 179 tonnes in 1971 and 217 tonnes in 1970. The demand in India in 1974 was only 14 tonnes while in 1975 and 1976 it went to 25 and 33 tonnes respectively. The fall in demand has been attributed to the steep rise in prices abroad. Most of the gold that came to India in the past was through unauthorised imports.

Official Gold Holdings: The following table shows the value of gold holdings of central banks all over the world (except China, U.S.S.R. and associated countries) in millions of Special Drawing Rights at 35 S.D.R.'s per fine ounce.

	30th Sept. 1977	End 1976	End 1975
Official holdings ..	40,299	40,563	40,873

Based on the market price of U.S. $154 per fine ounce on Sept. 30, 1977 the official holdings including IMF were valued at $177,317 million.

Gold Standard: The true gold standard existed only in the 50 years preceding World War I. Till the 19th century most countries were on silver or bi-metallic (silver 15 or 16 part, gold one part) standard. Britain went into a formal gold standard in 1816, Europe followed in 1870s and U.S.A. started after 1900 — same as India. However, gold standard was only a phase and was over by 1914.

International gold exchange standard prevailed since the last war till 1973. It meant a country's monetary authority responsible for determining and managing the supply of gold to supplement their resources with key currencies, notably dollars and sterling, which could be redeemed for gold.

This picture, however, changed when in February 1973 the U.S.A. devalued its dollar for the second time in 14 months by 10 per cent.

An ounce of gold that for 37 years cost only $35 and which went, officially, to $38 in 1972, was worth $42·22

Gold Production : The following table shows the revised production of gold in various countries in fine kilos

Countries	1977 (provisional)	1976	1975	1974
South Africa	701,000	713,400	713,400	758,600
Ghana	16,900	16,600	16,000	19,100
Rhodesia..	20,000	20,000	20,000	15,500
Other Africa	6,300	5,600	5,600	6,800
Canada	54,300	52,400	51,400	52,800
U.S.A.	31,600	32,600	32,700	35,000
Brazil	5,700	7,700	5,400	5,900
Colombia	9,200	9,300	9,600	8,200
Other Latin America	32,000	29,900	23,700	17,100
Philippines	15,400	15,600	15,600	16,700
Papua/New Guinea	22,800	19,800	19,000	20,700
Australia..	19,200	15,500	16,400	16,000
Other Asia Oceania	14,100	13,900	13,100	13,900
Europe	19,000	19,000	14,000	16,700
Total	967,000	969,000	956,000	1,003,000
South Africa (per cent) ..	72·0	74·0	75·0	76·0

towards the end of 1973. In reality, no gold was traded at that price. In the wake of U.S. devaluation, the price of gold in London market shot up beyond expectations and the free price of gold at one time even touched $198 per ounce in 1974.

In 1971, the U.S. withdrew the free convertibility of dollars with gold. Except in France, there had been no restoration of an international gold standard thereafter.

In the outside world, 1977, as was 1976, was also a year of much uncertainty and great fluctuations in the fortunes of gold. The main reason, of course was the I.M.F.'s programme of auctioning 25 million ounces of gold over a period of four years, offering about 780,000 ozs. at each auction.

The announcement of the programme of auctions had a great psychological impact on the Gold Market — depressing the price much below what was warranted by the quantities offered as a proportion of the total supplies coming to the market from mine production, Soviet sales and other sources. In eight months from January to end of August, of that year the free market price had declined from $140·35 to $103·05. It was feared that gold which had almost touched $200 at the end of 1974, will crash to below $100.

There were hurried consultations amongst the highest monetary authorities, as countries like France having large stocks of gold, and South Africa whose national economy depends on the fortunes of its gold mines, were interested in devising means to arrest the precipitous fall in gold prices before and after the first two auctions. These and some other West European countries, while ready to sail along with the U.S.A. in the policy of demonetising gold, they had a vital concern, unlike the U.S.A. in preserving the price of the yellow metal.

The result of the subsequent auctions finally removed fears of a gold collapse. The formal and informal understandings reached amongst the high priests of finance to hold the price of gold were helped by two other factors. One of them was a substantial increase in demand for gold from the oil-rich Middle-Eastern countries both for hoarding and for jewellery. There was also a marked increase in demand from the Far Eastern countries, particularly Japan for industrial purposes. These factors helped to absorb the sales of gold by the I.M.F. as well as the comparatively much larger quantities sold by the Soviet Union and the marginally higher production of the gold mines, without much permanent erosion of the price of gold. Total supplies during 1977 are estimated at 1,267 tonnes, compared to 1,570 tonnes in 1976.

India and Gold : Indian gold market is quite different from the international market. India has the world's largest stock of privately hoarded gold estimated unofficially at 5,000 tonnes. The mobilisation of this gold could affect the international market also, besides improving the economic conditions in the country. But this is unlikely to happen unless a social revolution takes place. As a protective measure, India's hoarded gold should be coaxed into the market and also her output of 2·2 tonnes per year should be stepped up.

Free market price of gold which was ruling about $55 p.f.o. in January, 1973, touched $127 on July 6, 1973, and $198 in November 1974. In 1975, 1976 and 1977 the price of gold fluctuated between $130 and $190 and between $190 and $124 and between $130 and $160 respectively. This rise slackened the demand for gold purchase in India. Actually, the authorised imports of gold to India were practically nil ; but the annual consumption is estimated at 60 to 70 tonnes.

Stocks of Gold in India : It was estimated that the total stocks of gold in the country in 1951 was 85·4 million ozs. Since 1951 to December, 1972, the smuggled gold was estimated at 58·1 million ozs., bringing the total stock to 143·5 million ozs. (4,600 tonnes or 4,600,000 kgs.) as on December 31, 1972.

Gold auction by Government : Before the auction took place in the first week of May, 1978 there was a tendency towards fall in price of gold. However, after initial fall the unofficial price of gold went up to as much as Rs. 720 per ten grammes. Slight fluctuations were recorded during May but the price never reached a level anticipated by the Government. During the first three auctions a total of 3,195·7 kg. of gold was sold by the Reserve Bank of India valued at Rs. 204·60 million.

Silver : As in 1974, 1975 and 1976, so also in 1977 the International Silver Market was dominated by speculative activity. The range of prices was as wide as in 1976, but fluctuations were on the whole less chaotic and comparatively narrower than during any year since 1971. The lowest quotation of the year in New York, was 430 cents

Gold & Silver Prices

Year	GOLD PER TOLA			SILVER PER 100 TOLAS		
	Highest	Lowest	Average	Highest	Lowest	Average
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1928–29 ..	21 11 6	21 4 6	21 6 10	66 6 0	58 2 0	60 9 2
1929–30 ..	21 0 0	21 5 3	21 7 5	59 7 0	46 14 0	53 9 11
1930–31 ..	21 13 3	21 3 6	21 12 6	57 4 0	39 0 0	46 15 1
1931–32 ..	31 2 0	21 3 6	24 4 3	66 8 0	41 12 0	50 3 11
1932–33 ..	32 1 6	26 10 0	29 5 2	60 0 0	48 14 0	52 11 11
1933–34 ..	34 12 0	28 11 0	32 4 5	59 14 0	52 15 0	56 0 10
1934–35 ..	36 13 3	33 3 0	35 15 8	67 0 0	50 7 6	60 13 5
1935–36 ..	36 12 0	31 3 6	35 4 11	87 0 0	46 12 0	65 1 1
1936–37 ..	35 8 0	35 15 3	34 12 6	56 2 0	47 0 0	50 5 8
1937–38 ..	32 2 0	34 3 6	34 7 10	55 15 6	46 1 6	51 4 1
1938–39 ..	37 10 7	34 12 3	35 10 3	53 1 6	48 2 0	51 11 3
1939–40 ..	43 8 0	36 9 0	39 13 11	66 4 0	44 7 6	55 4 9
1940–41 ..	48 8 0	40 2 6	42 6 0	64 13 0	54 10 0	62 8 0
1941–42 ..	57 12 0	41 9 6	44 7 11	97 6 0	61 12 6	66 11 4
1942–43 ..	72 0 0	44 12 0	57 10 10	116 8 0	75 4 0	94 2 6
1943–44 ..	96 4 0	65 4 0	76 11 6	141 8 0	101 8 0	120 7 11
1944–45 ..	76 12 0	61 2 0	71 7 4	143 4 0	113 10 0	128 10 9
1945–46 ..	97 12 0	63 6 0	80 3 0	159 6 0	118 0 0	135 1 11
1946–47 ..	111 0 0	84 4 0	101 1 2	195 0 0	127 0 0	162 4 10
1947–48 ..	117 12 0	95 14 0	108 0 4	183 8 0	142 8 0	166 12 6
1948–49 ..	121 0 0	103 0 0	114 9 10	190 8 0	166 8 0	177 9 0
1949–50 ..	119 10 0	107 2 0	114 14 11	192 12 0	158 14 0	174 11 10
1950–51 ..	120 2 0	104 12 0	113 7 4	198 12 0	173 14 0	185 14 3
1951–52 ..	118 10 0	79 0 0	98 8 0	207 4 0	139 0 0	173 2 0
1952–53 ..	95 14 0	77 5 0	88 0 1	174 12 0	141 12 0	159 8 4
1953–54 ..	93 6 0	79 8 0	86 1 6	167 14 0	148 14 0	157 4 10
1954–55 ..	95 6 0	83 0 0	89 2 4	173 14 9	147 15 0	159 3 9
	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.
1955–56 ..	91·79	76·66	82·12	157·59	132·68	144·65
1956–57 ..	93·98	84·83	89·61	160·64	144·63	150·58
1957–58 ..	98·06	89·59	92·99	168·09	151·91	158·32
1958–59 ..	103·31	89·33	96·09	173·19	152·99	162·95
1959–60 ..	107·98	99·98	103·71	187·12	164·50	176·08
1960–61 ..	124·40	107·12	114·01	209·30	181·00	193·64
1961–62 ..	126·00	115·85	121·25	219·65	196·95	206·49
1962–63 ..	129·90	86·00	117·71	242·00	187·80	218·69
1963–64 ..	118·00/ 69·75	97·00/ 58·00	111·98/ 61·85	269·00	222·50	240·32
1964–65 ..	72·75	63·25	68·84	281·50	224·00	261·17
1965–66 ..	85·00	70·50	77·78	406·50	281·00	314·62
1966–67 ..	92·75	76·00	83·85	385·00	336·00	358·88
1967–68 ..	168·00	146·00	156·97	565·00	346·00	430·09
1968–69 ..	181·00	150·00	160·45	633·00	508·00	556·67
1969–70 ..	192·00	163·50	179·62	521·00	446·00	489·13
1970–71 ..	198·00	177·50	184·96	588·50	483·50	536·68
1971–72 ..	214·50	188·00	200·16	610·50	512·25	561·35
1972–73 ..	288·00	202·00	242·14	655·00	495·00	554·20
1973–74 ..	525·00	279·00	369·23	1,420·00	612·00	796·14
1974–75 ..	565·00	470·00	518·00	1,340·00	981·00	1,161·60
1975–76 ..	574·00	511·00	542·00	1,427·00	1,001·00	1,214·00
1976–77 ..	566·00	504·00	535·00	1,410·00	1,083·00	1,246·50
1977–78 ..	701·00	561·00	631·00	1,275·00	1,215·00	1,245·00

(a) Spot prices relate to gold bullion upto 1963, 14 carat gold upto 1966 and to standard gold from 1967 onwards.

(b) Average relating to closing quotations for working days.

(c) The quotations from 1955–56 onwards are in Rupees and Naye Paise.

(d) The quotations from 1960 onwards are per 10 gms. of gold and per kg. of silver instead of tola and 100 tolas respectively.

(e) Spot prices of silver relate to below 0·996 fineness.

Percentage Share of Gold Reserves held by Selected Countries and Groups of Countries

	1972	1973	1974	1975
Industrialised countries	66·9	63·3	55·0	54·4
U.S.A.	8·3	7·3	7·4	7·3
W. Germany ..	15·0	18·2	14·9	14·7
France	6·3	4·7	4·1	4·4
Switzerland ..	4·7	4·4	4·1	3·7
Japan	11·6	6·7	6·2	6·4
Oil producers ..	4·4	5·9	18·6	22·6
Iran	0·6	0·7	3·8	4·3
Saudi-Arabia ..	1·6	2·1	6·6	9·0
Venezuela	1·1	1·3	3·0	3·7
Nigeria	0·2	0·3	2·6	2·9
Developing countries	15·3	17·5	16·6	14·1

in January 1977 and the highest was 496 cents in November 1977, the average for the year being 462·30 cents, the second highest in the history of silver. The highest average was 470·80 cents in 1974, when in February of that year, Silver had touched 670 cents. The average for 1975 was 441·85 cents and it was 435·35 cents in 1976.

The course of price fluctuations in the Bombay Market closely followed the New York pattern. The year's low point of Rs. 1,113 occurred in the third week of June 1977 and the peak of Rs. 1,298 was attained in the third week of November. In December the price touched Rs. 1,240, the average for the year being Rs. 1,205·5 per kg.

A new phase in the history of Indian silver exports began following the government announcement on August 26, 1976 to ban exports by private traders directly to overseas buyers. They were required to be channelled through the State Trading Corporation. For many years India had been an important source of silver to world markets. Following the assumption of control over silver shipments by the State-run S.T.C., there was a sharp decrease of exports during the latter part of the year. Consumption of silver in India for industrial purposes in 1976 amounted to about 18,000,000 ounces — an increase of 38 per cent over1975.

For the first time since pre-World War II period the Indian Government early in 1974 legalised the export of silver. This move represented a long-delayed official recognition that extensive silver smuggling operations had been going on for many years. Although production of silver in India is only around five tonnes a year, internal individual reserves held by the public are considered to be very large. Given sufficient price inducement, the reserves should continue to be a source of supply for world markets for many years.

Silver Exports : Silver ranks eighth among India's export earners. In 1975-76, the value of its export was Rs. 1,710 million against Rs. 820 million in the previous year.

NATIONAL INCOME

THE white paper released by the Central Statistical Organisation gives periodical data relating to trends on national product, per capita income and consumption both at current and constant prices, rates of saving on capital formation, data on other related aggregates such as net national product at market prices, personal income and private income, gross net domestic product at factor cost and its percentage distribution over sectors. In the latest document (Jan. 1978) a major departure from the previous year is that the estimates at constant prices are now presented with base 1970-71 instead of 1960-61. Quick estimates for 1976-77 have also been given in the same document.

National Product : According to latest estimate the national income for 1976-77 shows an increase of 1·6 per cent over the 1975-76 level. Table I gives data relating to net national product and **Per Capita Income** at current and 1970-71 prices for the period 1970-71 and 1976-77. The table also shows the percentage growth rates in total and per capita income at 1970-71 prices over the previous year.

Table 2 presents the percentage composition of the net domestic product. Percentage distribution of net national product at 1970-71 prices by broad sectors and throws light on changes in the structure of the economy over the period. We find that the primary sector (agriculture, forestry, fishery etc.) which accounted for 48·5 per cent in 1974-75 declined to 44·4 per cent in 1975-76. At constant prices the share of the primary sectors, however, increased in 1975-76 as compared to 1974-75. In the case of all other commodity groups, the share in 1975-76 has increased over that of 1974-75. At constant prices there is more appreciable change in most sectors except the secondary sectors, where there is a slight decline in the share in 1975-76 over the previous year. The over all growth of 8·6 per cent in 1975-76 in real domestic product was shared by all the five categories, higher being in agriculture (11 per cent) and the least in manufacturing (5·3 per cent).

Factor Incomes : Table III shows the distribution of net domestic product by factor incomes. For the economy as a whole, the distribution has not recorded any marked change since 1970-71 ; the compensation of employees which stood at about 39 per cent in 1970-71 decreased in 1973-74 and 1974-75 to 37 per cent. Compared to this, the share increased to 40 per cent in 1975-76. Mixed income of self-employed decreased from 48 per cent in 1974-75 to 43 per cent in 1975-76, off-setting the increase in the

TABLE I : Net National Product
(*i.e.* National Income)

Year		Net national product at factor cost (Rs. million)		Per capita net national product (Rs. million)	
		At current prices	At 1970-71 prices	At current prices	At 1970-71 prices
1970–71	..	344,120	344,120	6,360	6,360
1971–72	..	367,280	348,710	6,630	6,290
1972–73	..	403,910	343,230	7,140	6,060
1973–74	..	504,980	361,830	8,740	[illegible]
1974–75	..	594,170	364,550	10,070	6,180
1975–76	..	605,960	396,260	[illegible]	[illegible]
1976–77	..	642,790	[illegible]	[illegible]	[illegible]
Annual Growth Rates (Percentage)					
1971–72	..	6·7	1·3	4·2	1·1
1972–73	..	10·0	(—) 1·6	7·7	(—) 3·7
1973–74	..	25·0	5·4	22·4	3·3
1974–75	..	17·7	0·8	15·2	(—) 1·3
1975–76	..	2·0	8·7	0·1	6·6
1976–77	..	6·1	1·4	4·1	(—) 0·6

TABLE II : Composition of Net Domestic Product by Broad Sectors

(Percentage)

Sector	DISTRIBUTION At current prices 1974-75	DISTRIBUTION At current prices 1975-76	DISTRIBUTION At constant (1970-71) prices 1974-75	DISTRIBUTION At constant (1970-71) prices 1975-76	Increase in 1975-76 over 1974-75 (at constant prices)
(1) Primary	48·5	44·4	46·0	47·1	11·1
(2) Secondary	20·7	22·3	21·1	20·5	5·3
(3) Transport, Communication and Trade	17·0	17·9	16·9	16·8	7·8
(4) Finance & Real Estate	4·5	5·3	5·0	5·0	8·8
(5) Community & Personal Services	9·3	10·1	11·0	10·6	5·6
Total	100·0	100·0	100·0	100·0	8·6

TABLE III : Distribution of Factor Incomes

(Percentage)

Year	Compensation of employees	Interest	Rent	Profits & dividends	Mixed income of self-employed
1970–71 ..	39·3	5·4	5·1	4·6	45·6
1973–74 ..	37·2	5·3	4·7	4·3	48·5
1974–75 ..	36·6	5·5	4·1	5·4	48·4
1975–76 ..	40·3	6·4	4·5	6·0	42·8

compensation of employees. Rent and profits and dividends also showed marginal increases in 1975-76 over 1974-75.

Consumption, Saving & Capital Formation : The consumption expenditure at current prices in 1975-76 is estimated at Rs. 534,720 million as against Rs. 533,480 million in 1974-75 thus showing a very marginal increase at current prices. This small increase has resulted in a fall in per capita consumer expenditure from Rs. 904 in 1974-75 to Rs. 890 per capita in 1975-76. This fall has been as a result of large scale fall in prices particularly of foodgrains and other consumer agricultural goods.

The net domestic saving is estimated at Rs. 100,020 million in 1975-76 as compared to Rs. 88,620 million in 1974-75. Expressed as a percentage of net national product at market prices the rate of saving is 14·6 per cent in 1975-76 as against 13·4 per cent in 1974-75. The public sector has shown considerable increase in 1975-76 over the previous years. On the other hand the private corporate sector decreased its contribution from Rs. 7,750 million in 1974-75 to Rs. 3,740 million in 1975-76 thereby showing a fall of more than 50 per cent between the two years. This fall was accounted by cotton, jute, sugar and shipping industries. The saving of the household sector which increased by 5 per cent in 1974-75 registered a substantial increase of 21 per cent in 1975-76 from Rs. 58,970 million in 1974-75 to Rs. 71,220 million in 1975-76. This increase is accounted by the savings in financial assets in the form of deposits, provident funds, and net claims on government.

Table IV gives an idea of the share of public sector in domestic product over the years 1970-71 to 1975-76.

Table V gives composition of the net domestic product by the sectors and sub-sectors.

Table VI gives data on savings and investments of the economy during the years 1950-51 to 1976-77.

TABLE VI : Rate of Savings & Investment

Year	Savings	Capital formation
1950–51	7·0	6·8
1951–52	6·7	8·6
1955–56	10·0	10·4
1956–57	9·8	13·0
1960–61	9·3	12·7
1965–66	11·2	13·8
1966–67	11·8	15·4
1970–71	12·1	13·1
1971–72	12·2	13·4
1972–73	11·8	12·5
1973–74	12·8	13·5
1974–75	13·4	14·4
1975–76	14·6	14·4
1976–77	15·9	13·9

TABLE IV : Share of Public Sector in Net Domestic Product

(at current prices)

(Rs. million)

Item	1970-71	1973-74	1974-75	1975-76
I. Net product of public sector ..	50,290	72,380	95,840	112,900
(1) Administrative departments ..	24,010	32,990	40,780	45,720
(2) Departmental enterprises ..	13,430	15,760	19,750	23,130
(3) Non-departmental enterprises ..	12.850	23,630	35,310	44,050
(PERCENTAGE OF TOTAL ndp)				
II. Net product of public sector ..	14·5	14·2	16·1	18·6
(1) Administrative departments ..	6·9	6·5	6·9	7·3
(2) Departmental enterprises ..	3·9	3·1	3·3	3·8
(3) Non-departmental enterprises ..	3·7	4·6	5·9	7·3

TABLE V : Composition of Net Domestic Product by Sectors and Sub-Sectors

(Rs. Million)

Item	Current Prices						At 1970–71 Prices			
	1970-71*	1975-76	1976-77	Per cent change between 1970-71 & 1976-77	Per cent share in		1975-76	1976-77	Per cent change between 1970-71 & 1976-77	Per cent share in 1976-77
					1970-71	1976-77				
I. Primary Sector ..	172,580	270,010	275,150	59·4	49·7	42·7	186,880	177,480	2·8	44·0
1. Agriculture ..	162,750	248,420	252,580	55·2	46·8	39·2	174,190	163,630	0·5	40·6
2. Forestry and Logging	4,030	7,520	8,210	103·7	1·2	1·3	5,310	6,140	52·3	1·5
3. Fishing	2,380	4,980	5,410	127·3	0·7	0·8	12,940	3,120	31·1	0·8
4. Mining & Quarrying ..	3,420	9,090	8,950	161·7	1·0	1·4	4,440	4,590	34·2	1·1
II. Secondary Sector	69,270	136,010	152,510	120·2	20·0	23·7	81,390	88,520	27·8	22·0
1. Manufacturing — Regd.	29,570	59,790	66,590	125·2	8·5	10·3	34,780	38,170	29·1	9·5
2. Manufacturing — Unregd.	17,590	35,760	38,790	120·5	5·1	6·0	21,660	22,950	30·4	5·7
3. Construction ..	18,950	34,280	39,700	109·5	5·5	6·2	20,890	22,890	20·8	5·7
4. Electrictity, Gas & Water Supply ..	3,160	6,180	7,430	135·1	0·9	1·2	4,060	4,510	42·7	1·1
III. Tertiary Sector ..	105,110	202,490	217,680	107·1	30·3	33·6	128,900	136,550	29·9	34·0
1. Transport, Storage and Communication	15,940	29,510	33,570	110·6	4·6	5·2	20,780	22,130	38·8	5·5
2. Trade and Hotels, Etc.	39,080	79,560	82,710	111·6	11·3	12·8	45,980	46,930	20·1	11·7
3. Banking and Insurance ..	6,360	17,750	19,550	207·4	1·8	3·0	8,230	10,280	61·6	2·6
4. Real Estate, etc.	10,160	14,380	16,410	61·5	2·9	2·5	11,640	12,130	19·4	3·0
5. Public Administration ..	16,350	32,300	34,800	112·8	4·7	5·4	22,590	24,770	51·5	6·2
6. Other Services ..	17,220	28,990	30,640	77·9	5·0	4·7	19,680	20,310	17·9	5·0
Commodity Producing Sectors (I + II) ..	241,850	406,020	427,660	76·8	69·7	66·4	268,270	266,000	10·0	66·0
Non-Commodity Producing Sectors (III) ..	105,110	202,490	217,680	107·1	30·3	33·6	128,900	136,550	29·9	34·0
Net Domestic Product at Factor Cost ..	346,960	608,510	645,340	86·0	100·0	100·0	397,170	402,550	16·0	100·0

* At current and constant prices.

Trends in Saving and Capital Formation

(at current prices)

(Rs. million)

Item	1960–61	1970–71	1971–72	1972–73	1973–74	1974–75	1975–76
1. Net domestic product at market prices	142,820	382,090	406,950	445,440	548,790	650,430	681,860
2. Net domestic capital formation adjusted for errors and omissions..	18,080	48,930	50,250	58,270	71,560	95,760	110,580
3. Net capital inflow	4,810	3,940	4,790	2,970	[illegible]	10,760	10,450
4. Net domestic saving..	13,270	44,990	45,460	55,300	67,[illegible]	85,000	100,130
5. Rate of capital formation	12·7	12·8	12·3	13·1	13·0	14·7	16·2
6. Rate of saving ..	9·3	11·8	11·2	12·4	12·3	13·1	14·7
7. Net capital inflow as % of net domestic capital formation ..	26·6	8·1	9·5	5·1	5·5	11·2	[illegible]

Private Final Consumption Expenditure

	1960–61	1970–71	1973–74	1974–75	1975–76
1. Private Final Consumption Expenditure (Rs. million)	119,680	305,520	435,030	537,770	555,380
2. Private Final Consumption Expenditure at 1960–61 prices (Rs. million) ..	119,680	169,880	180,430	177,000	192,450
3. Per capita Consumption Expenditure (Rs.) :					
(*a*) at current prices	276	565	754	915	926
(*b*) at 1960–61 prices	276	314	313	301	321
4. Consumption Expenditure Main items (Rs. million with % share in bracket at current prices) :					
(*a*) Food	79,760 (67)	207,760 (68)	297,730 (68)	365,360 (68)	367,020 (66)
(*b*) Clothing	9,210 (8)	21,390 (7)	31,990 (7)	39,830 (7)	39,660 (7)
(*c*) Fuel & Power	4,790 (4)	10,700 (4)	13,740 (3)	16,760 (3)	19,570 (4)
(*d*) Others	25,920 (21)	65,670 (21)	91,570 (22)	115,820 (22)	129,130 (23)

ECONOMIC SITUATION

ECONOMIC performance during the year 1977-78 was relatively better as compared with 1976-77. The year started with stocks of foodgrains of 18 million tonnes which rose to 20 million tonnes by the end of June 1977.

The rate of growth of **Gross National Product** according to the provisional estimates is expected to be about 5 per cent as compared with 1·6 per cent in the earlier year (vide table I). Agricultural production seems to be higher by 7 per cent while the total foodgrain production is estimated to increase by 10 per cent. Foreign exchange reserves which incresed by Rs. 13,710 million in 1976-77 rose further by Rs. 10,960 million up to the end of January 1978. Prices also have ruled relatively easy because of a better supply management of sensitive commodities, the good kharif crop, a liberal import policy and a restrictive monetary and credit policy.

Growth Rate : The annual average rate of growth in the 4 years of the Fifth Plan ending 1977-78 works out to 3·9 per cent as compared to the long range average rate of growth of 3·5 per cent. Provisional data available from the Central Statistical Organisation shows that gross domestic capital formation in 1976-77 was at about the same level as in 1975-76 *i.e.*, 19·3 per cent of GNP. The proportion of savings to GNP was however higher which led to an increase of foreign exchange reserves.

Agricultural Production : The kharif output in the year 1977-78 has been good because of satisfactory rainfall over most parts of the country which is estimated that foodgrains production would be 71-73 million tonnes that is 4 to 6 million tonnes more than in the kharif session of 1976-77 and close to that in 1975-76. It is roughly estimated that the total foodgrains production would be about 122 million tonnes as against 111 million tonnes last year.

Commercial crops production is also very satisfactory in the year just ended. Output of groundnuts is expected to be 0·5 million tonnes higher than the output of 4·8 million tonnes in 1976-77. Production of cotton and sugarcane is expected to be much higher than the last year while that of jute and mesta may be marginally lower than the 1976-77 level.

Industry : Industrial production in 1977-78 is likely to register a growth of about 5 per cent as compared to more than 10 per cent in 1976-77 (*vide* Table I). Industries like electricity generation, coal, steel, cement, commercial vehicles etc., have shown decelerating rates of growth. Production in the cotton textile industry has actually gone down. On the other hand food manufacturing, non-electrical and electrical machinery and chemicals and leather goods industry have done well. The relatively lower growth in industrial production in the current year seems to be due to capacity constraint in some industries, lack of demand in others and consumer resistance to high prices.

Price : The wholesale price index which had fallen to 162·2 for the week ending March 20, 1976 reversed direction and rose to 182·1 for the week ended March 26, 1977. At this level the index was 12 per cent higher than a year earlier. The increase since then has been relatively small that is not more than 0·6 per cent by January 21, 1978. However, prices at the beginning of the year were already high. The average level of prices during the first 9 months of 1977-78 turned out to be substantially higher in spite of the relative price stability during the year. While prices of most commodities have been relatively stable, the prices of major commodities namely pulses and edible oils have risen because of shortages. Consumer price index have also shown a larger increase between March and December 1977. The index increased by 5·8 per cent.

Money Trends : In 1977-78 the increase in money supply has been of the order of 8·7 per cent that is some 4 percentage points less than the increase in the corresponding period last year. All the three factors namely an increase in foreign exchange assets of the banking system, an increase in credit to the commercial sector and an increase in net bank credit to government sector have contributed in more or less equal measure to this expansion. The contribution of the budgetary operations of the government to the increase in money supply has shown a sharp rise in the year just ended as compared to the same period last year. The rate of growth of time deposits which exercise an contractionary influence has been lower. Thus in order to insulate the economy from the impact of these monetary pressures, a restrictive credit and monetary policy initiated last year was continued.

Balance of Payment : There was a marked improvement in the country's balance of payments position noticed last year and continued in the year just ended. Export growth however had decelerated to 9 per cent from 27 per cent in 1976-77. Many of the items which showed buoyancy in the previous year such as sugar, leather and leather manufactures, iron and steel, cotton, fish and fish preparations have shown slower growth during the year due to various reasons. In view of the comfortable foreign exchange position, imports were liberalised and as a consequence non-food imports increased by about 32 per cent. A notable feature of the year was a trade surplus of Rs. 720 million in the first 8 months of 1977-78. This trade surplus has led to an even larger accumulation of foreign reserves than last year.

To sum up while there is sufficient cause for satisfaction of performance in the economy for the year just ended the shortfalls in production of commodities like edible oil, pulses and cotton, low rate of increase in industrial production, the increased liquidity in the economy, the sluggishness in industrial investment and the accumulation of reserves are matters for concern. The emphasis of economic policy in the current year will, therefore, have to be on increasing the output of these commodities, providing incentives for larger investment in industry and formulating an overall strategy of growth which will utilise the increasing foreign exchange reserves. The last is most important if the paradoxical situation of the poor country lending abroad — which is what the growth in foreign exchange reserves really amounts to — is to be corrected.

TABLE I : Selected Economic Indicators

	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78
	(Percentage change over previous year)						
1. Gross National Product at 1970-71 prices	1·5	— 1·1	5·2	0·5	8·5	1·6[1]	5·0[2]
2. Agricultural production	— 0·4	— 8·0	10·7	— 3·5	15·6	— 6·7	7·0[2]
3. Foodgrains production	— 3·0	— 7·7	7·9	— 4·6	21·0	— 7·8	10·0[2]
4. Industrial production	3·3	4·0	2·2	2·6	6·1	10·4	5·2[3]
5. Electricity generated	9·3	6·1	2·8	5·2	13·5	11·8	2·5[4]
6. Wholesale prices	5·6	10·0	20·2	25·2	— 1·1	2·1	6·6[4]
7. Money supply	12·9	16·6	15·5	6·9	11·3	20·3	8·7[5]
8. Imports (in current prices)	11·6	2·4	58·3	52·9	16·5	— 3·6	3·8[6]
9. Exports (in current prices)	4·8	22·5	28·0	31·9	21·4	27·2	9·3[6]

[1] Quick estimates.

[2] Anticipated.

[3] April–October, 1977 over April–October, 1976.

[4] Average of April–December, 1977 over average of April–December, 1976.

[5] As on January 20, 1978 compared to March 31, 1977.

[6] April–November, 1977 over April–November, 1976.

CENTRAL BUDGET (1978-79)

TABLE I : Overall Budgetary Position of the Government of India

(Rs. million)

Item	1969–70	1975–76	1977–78 (Revised)	1978–79 (Budget)
I. Revenue Account				
A. Receipts	30,670	80,754	97,787	107,824
B. Expenditure	29,419	71,785	97,432	108,992
C. Surplus (+) or Deficit (—)	+ 1,251	+ 8,969	+ 355	— 1,168
II. Capital Account				
A. Receipts	25,080	46,857	61,587	71,648
B. Disbursements	26,787	59,502	71,690	80,979
C. Surplus (+) or Deficit (—)	— 1,707	— 12,645	— 10,103	— 9,331
III. Overall Position				
A. Receipts (IA + IIA)	55,750	127,611	159,374	179,472
B. Disbursements (IB + IIB)	56,206	131,287	169,122	189,971
C. Surplus (+) or Deficit (—)	— 456	— 3,676	— 9,748	— 10,499
IV. Overall Surplus (+) or Deficit (—) financed by (A + B)	— 456	— 3,676	— 9,748	— 10,499
A. Increase (—) in Treasury Bills	625	— 8,466	— 7,020	— [illegible]
B. Cash Balances Decrease (—) or Increase (+)	+ 169	+ 4,790	— 2,728	— 600

TABLE II : Revenue Receipts of the Government of India

(Rs. million)

Item	1969–70	1975–76	1977–78 (Revised)	1978–79 (Budget)	Percentage share to total in 1969–70	Percentage share to total in 1978–79
Tax Revenue						
1. Corporate tax	3,534	8,617	12,750	14,498	11·5	13·4
2. Income tax	1,553	4,803	3,496	3,990	5·1	3·7
3. Customs	4,233	14,194	17,801	18,606	13·8	17·3
4. Union excise duties	12,028	29,881	33,397	40,373	39·2	37·4
5. Others	666	2,603	3,629	2,816	2·2	2·6
Total Tax Revenue	22,014	60,098	71,073	80,283	71·8	74·4
Total Tax Revenue						
1. Interest receipts	5,948	9,337	13,279	13,894	19·4	12·9
2. Dividends and profits	1,227	1,950	2,815	2,702	4·0	2·5
3. Others	1,481	9,369	10,620	10,945	4·8	10·2
Total Non-tax Revenue ..	8,656	20,656	26,714	27,541	28·2	25·6
Total Revenue Receipts ..	30,670	80,754	97,787	107,824	100·0	100·0

TABLE III : Revenue Expenditure of the Government of India

(Rs. million)

Item	1969–70	1975–76	1977–78 (Revised)	1978–79 (Budget)	Percentage share to total in 1969–70	Percentage share to total in 1978–79
I. Development Expenditure (1 to 3)	7,834	21,570	39,333	44,681	26·6	41·0
1. Social and community services	1,995	5,198	6,812	7,754	6·8	7·1
2. Economic and general services ((*a*) to (*f*))	2,316	9,962	18,727	19,424	7·9	17·8
(*a*) Agriculture and allied services	588	3,653	7,876	8,652	2·0	7·9
(*b*) Industry and minerals ..	372	2,516	4,041	4,541	1·3	4·2
(*c*) Foreign trade and export promotion	420	1,607	3,635	2,797	1·4	2·6
(*d*) Water and power development	40	786	1,084	1,298	0·1	1·2
(*e*) Transport and communications	429	971	1,164	1,239	1·5	1·1
(*f*) Others	467	429	927	897	1·6	0·8
3. Grants-in-aid to States & Union Territories	3,523	6,410	13,794	17,503	11·9	16·1
II. Non-Development Expenditure	21,585	50,315	58,099	64,311	73·4	59·0
1. Collection of taxes and duties	418	928	1,109	1,232	1·4	1·1
2. Interest payments	5,649	12,282	15,609	18,405	19·2	16·9
3. Defence (net)	9,656	22,511	24,867	26,516	32·9	24·3
4. Administrative services ..	1,443	3,888	4,052	14,286	4·9	3·9
5. Grants to States and Union Territories	2,361	6,482	6,529	7,467	8·0	6·9
6. Others	2,058	4,224	5,933	6,405	7·0	5·9
Total Revenue Expenditure (I + II) .	29,419	71,885	97,432	108,992	100·0	100·0

TABLE IV — Capital Receipts of the Government of India

(Rs. million)

Item	1969–70	1975–76	1977–78 (Revised)	1978–79 (Budget)	Percentage share to gross revenue	
					1969–70	1978–79
1. Market loans — gross	5,365	6,610	13,118*	18,300	21·4	25·5
1 a. Market loans — net	1,431	4,564	11,825	16,498	—	—
2. External loans — gross	6,333	14,155	9,194	12,334	25·3	17·2
2 a. External loans — net	4,542	10,718	4,808	8,333	—	—
3. Repayment of loans and advances	9,046	14,855	22,700	23,860	36·1	33·4
4. Small savings (net)	1,288	3,928	4,400	4,600	5·1	6·4
5. Providend Fund (net)	803	2,337	2,029	2,483	3·2	3·5
6. Special deposits of non-governmental providend funds	—	1,040	2,590	2,250	—	3·1
7. Others	2,245	3,932	7,646	7,821	8·9	10·9
Gross capital Receipts	25,080	46,857	61,587	71,648	100·0	100·0

* Excludes Rs. 1,000 million of *ad hoc* treasury bills converted into debit securities.

TABLE V — Capital Disbursements of the Government of India

(Rs. million)

Item	1969–70	1975–76	1977–78 (Revised)	1978–79 (Budget)	Percentage share to total in	
					1969–70	1978–79
A. Developmental Capital Outlay (1 + 2)	5,355	17,885	20,448	22,364	20·0	27·6
1. Social and Community Services	24	811	1,055	1,300	0·1	1·6
2. Economic Services (a to h) ..	5,331	17,074	19,393	21,064	19·9	26·0
(*a*) General Economic Services	—	740	452	826	—	1·0
(*b*) Agriculture and allied services	230	3,621	— 200	1,624	0·8	2·0
(*c*) Industry and Minerals ..	2,703	7,230	13,166	11,031	10·1	13·6
(*d*) Water and power development	372	1,047	1,326	1,932	1·4	2·4
(*e*) Transport and communications	548	1,133	1,391	1,891	2·1	2·3
(*f*) Railways	943	2,509	3,001	3,479	3·5	4·3
(*g*) Posts & Telegraphs ..	334	794	257	281	1·2	0·4
(*h*) Others	201	—	—	—	—	—
B. Non-Developmental Capital Outlay (1 + 2)	1,130	4,619	2,926	5,436	4·2	6·7
1. Defence	1,353	2,212	2,647	2,934	5·0	3·6
2. Others	— 223	2,407	279	2,502	— 0·8	3·1
C. Loans and Advances	14,576	31,514	42,637	47,376	54·4	58·5
D. Discharge of debt (1 + 2) ..	5,726	5,484	5,679	5,803	21·4	7·2
1. Internal	3,934	2,046	1,293	1,802	14·7	2·2
2. External	1,792	3,438	4,386	4,001	6·7	5·0
Total Capital Outlay **(A to D)**	26,787	59,502	71,690	80,979	100·0	100·0

Note : ' — ' indicates nil or negligible.

SIXTH FIVE-YEAR PLAN

THE main objectives of planning in India have been defined in the Draft Plan Document 1978–83. These goals are to be achieved within a period of 10 years and are described in the Five-Year Plan as: (*i*) The removal of unemployment and underemployment ; (*ii*) appreciable rise in the standard of living of the poorest sections of the population; (*iii*) provision by the state of some of the basic needs of the people in low income groups, like clean drinking water, adult literacy, elementary education, health care, rural roads, rural housing for the landless and minimum services for the urban slums.

The Sixth Plan in other words aims at considerable progress towards achieving the above mentioned goals with the primary objective of (*iv*) achieving a higher rate

TABLE I — Output Projections of Principal Commodities — 1982-83

S. No.	Item	Unit	1977–78	1982–83
1.	Foodgrains	Mill. Tonnes	121·00	140·48 to 144·48
2.	Sugarcane	Mill. Tonnes	156·90	188·00
3.	Cotton	Thousand bales (170 Kg. each)	6,430·00	8,150·00 to 9,250·00
4.	Oilseeds (major)	Thousand tonnes	9,200·00	11,200·00 to 11,500·00
5.	Coal	Mill. Tonnes	103·20	149·00
6.	Crude Petroleum	Mill. Tonnes	10·77	18·00
7.	Cloth—Mill Sector — Decentralised Sector	Mill. Mtrs. ,, ,,	4,200·00 5,400·00	4,600·00 7,600·00
8.	Nitrogenous Fertilisers (N)	Th. Tonnes	2,060·00	4,100·00
9.	Phosphatic Fertilisers (P2O5)	Th. Tonnes	660·00	1,125·00
10.	Paper & Paper Boards	Th. Tonnes	900·00	1,250·00
11.	Cement	Mill. Tonnes	19·20	29·00 to 30·00
12.	Mild Steel	Mill. Tonnes	7·73	11·80
13.	Aluminium	Th. Tonnes	180·00	300·00
14.	Commercial Vehicles	Th. Numbers	40·00	65·00
15.	Electricity Generation	G.W.H.	100·00	167·00

of growth of the economy at 4·7 per cent; (*v*) moving towards a significant reduction in the present disparities of income and wealth and (*vi*) ensuring the country's continued progress towards self-reliance.

PLAN FRAME : The quantitative frame-work for which the Sixth Plan is based on consistency model *i.e.*, a description of the economy in terms of a set of relationships between different sectors, between income and consumption, between production and employment etc. In building the model the Planning Commission has paid particular attention to analysis of production possibilities in input requirements in agriculture. The employment objective has been reflected in the special treatment of certain labour intensive village and small industry sectors and the detail calculations of employment generation.

The overall plan size projected for 1978–83 is Rs. 1,162,400 million. Of this the public sector outlay is Rs. 693,800 million. Table I above indicates the planned output of important items of production in the Sixth Plan.

RATE OF GROWTH : The overall growth rate projected in the Plan is 4·7 per cent per annum. This is somewhat lower than the target of 5 to 7 per cent projected in earlier Plans, though the actual achievement has varied between 2·3 per cent and 3·8 per cent.

The Plan also envisages a substantial enhancement of incomes in the hands of the lower strata of society. The rate of gross saving is estimated to increase from 19·8 per cent in 1977–78 to 23·4 per cent by 1982–83. The most important component — household saving — is assumed to increase from 16·4 per cent of the disposable household income in 1977–78 to 17·4 per cent in 1982–83.

PUBLIC SECTOR OUTLAY : The public sector outlay proposed for the five-year period is Rs. 693,800 million which represents about 59·7 per cent of the total Plan outlay and is proposed to be financed as shown in table II.

TABLE II

(Rs. million)*

1.	Central and State government resources at 1977–78 rates of taxation	128,900
2.	Gross surplus of public enterprises at 1977–78 rates, tariffs etc.	102,950
3.	Additional resource mobilisation by the Centre	90,000
4.	Additional resource mobilisation by the States	40,000
5.	Market borrowings of Government, public enterprises etc.	159,850
6.	Small savings	31,500
7.	Central and State Provident Funds	29,500
8.	Term Loans of financial institutions (Net)	13,000
9.	Miscellaneous capital receipts (Net)	4,500
10.	External assistance (Net)	59,550
11.	Borrowing against utilisation of foreign exchange reserves	11,800
12.	Uncovered gap	22,250
	Total	693,800

* All figures rounded off to nearest 50 million.

On the other hand the private sector accounts for about 40 per cent of the total Plan.

The main thrust of the 1978–83 Plan is the removal of poverty by way of creating new employment opportunities and at the same time providing the basic needs to the people particularly in the lower strata of society. In order to achieve this the Planning Commission proposes to initiate programme of large-scale employment combined with significant expansion of social services in the form of education, public health, nutrition, drinking water, housing, communications etc.

EMPLOYMENT : The strategy of the Plan is to adopt employment intensive sectoral planning; to regulate technological change, to protect and enhance employment and to promote area planning for full employment. The concern for creating employment opportunities shows a lively awareness of certain structural issues in the field of rural development which remain characteristically blurred in the poor policies persued in the earlier plans.

The document also realistically recognises the fact that in order to create an impact in the rural areas there is to be expansion of infrastructure and social services namely road construction, electrification, water supply, rural school and community health services. At the same time, a large increase in the consumption of the poor is expected to take place which will create additional employment for wage goods which can further be produced by labour intensive methods. The irrigation, power and housing programmes also implies a massive increase in construction activity with a corresponding expansion of employment opportunities. If the Plans of investment and production are fully implemented, it is estimated that employment opportunities of the following order would be created within the Plan period.

	Million man-years
1. Agriculture and allied sectors	22·8
2. Mining	0·4
3. Manufacturing (including cottage inds.) ..	8·9
4. Construction and services	17·1
TOTAL	49·2

This implies that the expansion in the labour force of 30 million in the period 1978-83 as well as the substantial backlog of about 21 million unemployed would be absorbed during the current Plan.

MINIMUM NEEDS: "The Minimum Needs" programme for 1978–83 promises (*i*) to cover the elementary education of children in the age-group of 6 to 14 by 90 per cent. It also promises 100 per cent coverage of adult education in the age-group of 15 to 35. As regards rural health, it is intended to establish one Primary Health Centre for every 50,000 population and one Sub-Centre for 5,000 population. The Plan also promises cent per cent coverage by community health worker (sanitation, immunisation, simple remedies, referal services). The Plan is also likely to cover cent per cent of all problem villages so far as rural water supply is concerned. In the case of rural roads the document promises linking of all villages with a population of 1,000 or more and 50 per cent coverage of villages with population of 1,000 to 1,500. 40,000 villages are likely to be electrified during the Plan period. Provision of housing assistance to all rural landless labour and environmental improvement of urban slums, along with mid-day meals for about 4 million additional children in the age-group of 6 to 11 years.

It is estimated that if this programme has to make any impact, the total outlay on "Minimum Needs" schemes will be stepped up from Rs. 8,000 million in the Fifth Plan period *i.e.*, 1974–78 to Rs. 41,800 million during the 1978-83 period. The document also highlights prospects for reduction of poverty in the next five years by way of various redistributive measures. These have been mentioned in the document as (*i*) distribution of existing assets relating to agriculture land, urban real estate and corporate property; (*ii*) public sector operations to steer the distribution of essential commodities, infrastructural facilities and social services in favour of low income consumers; (*iii*) on the production side the share of small farmers and small industry enterprises in institutional credit and in the supply of material inputs to be increased; (*iv*) policies which minimise unemployment should be expected to reduce inequalities; and finally the rural and urban poor will have to be organised in order to get them the benefit of various laws, policies and various schemes collectively.

Thus, in addition to fiscal measures the Plan emphasises redistributive justice to be built in to the whole spectrum of production, distribution and employment policies relating to the five year period. Thus, with the redistribution built into the Plan the percentage of population below 75 per cent of poverty line during 1978-83 period would be as shown in table III below :

TABLE III

	Percentage of population					
	Below Poverty Line			Below 75% of Poverty		
	1977–78	1982–83	1987–88	1977–78	1982–83	1987–88
	(1)	(2)	(3)	(4)	(5)	(6)
1. Rural	47·85	38·70	27·28	26·42	19·39	11·88
2. Urban	40·71	35·33	26·23	22·34	18·35	12·26
3. All India	46·33	37·95	27·04	25·55	19·16	11·97

Private Sector : Private sector accounts for 44 per cent (Rs. 176,870 million) of total investment in the Sixth Plan period. The Plan calculations show that the aggregate saving of the private sector — Corporate, Co-operatives and Household — would be of the order of Rs. 714,380 million. The resources available for investment in the private sector are projected at Rs. 468,000 million. This figure is exclusive of transfers from the public sector for investment in the private sector.

Table IV on next page gives an idea of the total public sector outlay from Plan to Plan which has been grouped under 4 broad heads.

TABLE IV Composition of Public Sector Outlay

	Total (Rs. million)	Agriculture	Industry	Transport	Human welfare
		(Percentage to total)			
1. Second Plan	46,000	30·3	23·4	28·3	18·0
2. Third Plan	86,310	35·1	22·6	24·5	17·8
3. 1966–69 Plan					
4. Fourth Plan	157,780	33·8	23·5	18·8	17·9
5. Fifth Plan	393,030	21·7	44·9	17·6	15·8
6. 1978–83 Plan	693,800	26·3	44·9	15·3	13·5

Agriculture includes allied sectors and irrigation and power, transport includes communications, while industries cover mining and smalll scale industries. Human welfare refers to education, health, housing and labour welfare etc.

Rolling Plan : For the first time the Planning Commission has introduced the concept of the Rolling Plan. Accordingly it is proposed that while preparing annual plans for every year, the progress of major sectors during the earlier year would be reviewed and if there are slippages in any area, additional effort would be indicated for achieving the 1982–83 targets. If, however, the demand outlay in any sector has changed significantly, since the preparation of the Plan or if in the light of proper information, some earlier forecasts need to be changed, the Planning Commission would make necessary adjustments. This in brief constitutes the methodology of the Rolling Plan.

DEFENCE SERVICES

SUPREME COMMANDER : President of India ; **Chief of Army Staff :** Gen. O. P. Malhotra ; **Chief of Naval Staff :** Admiral R. L. Pereira ; **Chief of Air Staff :** Air Chief Marshal I. H. Latif.

(Further details under " Ministry of Defence. ")

Army : The army is organised into 5 Commands under Army Headquarters. Each Command is further divided into Areas and independent Sub-Areas. A Command is commanded by a General Officer Commanding-In-Chief (called Army Commander) of the rank of Lt. General ; Areas by General Officers Commanding (Maj. Generals) and Sub-Areas by Brigadiers.

Army Commands with headquarters in brackets : Eastern Command (Calcutta, West Bengal), Southern Command (Pune, Maharashtra), Western Command (Simla, Himachal Pradesh), Central Command (Lucknow, Uttar Pradesh), and Northern Command (Udhampur, Jammu & Kashmir).

(For Sector Commanders see " Ministry of Defence " in Central Govt. list.)

Navy : The Chief of Naval Staff exercises command through the following authorities :

(*a*) The Flag Officer Commanding-In-Chief, Western Naval Command, Bombay : Covers : Bombay, Okha, Jamnagar and Lonavla.

(*b*) The Flag Officer Commanding-In-Chief, Eastern Naval Command, Visakhapatnam : Covers : Visakhapatnam, Calcutta, Andaman and Nicobar and Madras.

(*c*) The Flag Officer Commanding-In-Chief, Southern Naval Command, Cochin : Covers : Cochin, Coimbatore and Goa.

(For Commanding Officers see " Ministry of Defence " in Central Govt. list.)

Air Force : There are five Commands : The Western Air Command (Palam, New Delhi), the Central Air Command (Allahabad, Uttar Pradesh), the Eastern Air Command (Shillong, Assam), the Training Command (Bangalore, Karnataka), and the Maintenance Command (Nagpur, Maharashtra). Some units with distinct functions are controlled by Air Headquarters directly.

(For Commanding Officers see " Ministry of Defence " in Central Govt. list.)

India's Frontiers : The country has 15,168 kms. of land frontier — 2,966 kms. with Pakistan ; 3,950 kms. with Bangladesh ; 3,862 kms. with China ; and 4,390 kms. with Nepal. Besides it has a coastline of 5,689 kms.

Expenditure : The defence expenditure during 1977-78 is estimated at Rs. 27,520 million. At this level it will be Rs. 1,370 million more than the revised estimate of Rs. 26,150 million for 1976-77, but is Rs. 560 million less than provided for in the interim budget.

According to *Military Balance*, 1977-78, per capita expenditure on defence in U.S. dollars in 1976 was 5 in India, 11 in Pakistan, 477 in USA, 492 in USSR, 190 in UK, 8 in Indonesia, 128 in Egypt, 281 in Iran and 1,201 in Israel.

Strength of the forces : India maintains 828,000 men in 25 divisions of the Army. According to *Military Balance* (brought out by International Institute of Strategic Studies, London) India has 2 armoured divisions (1,350 tanks), 3 independent armoured brigades, 13 infantry divisions, 10 mountain divisions, 6 independent infantry brigades, and two para brigades.

The Air Force has 45 squadrons — 10 equipped with modern supersonic aircrafts and 5 helicopter squadrons. The squadrons are estimated to comprise of the following (Source : *Military Balance*) : — 2 Squadrons of ch. Bombers, 6 Squadrons of F/Bombers — Su7, 2 Squadrons of F/Bombers HF-24, 7 Squadrons of F/Bombers/Hunters, 2 Squadrons of F/Bombers Mysteres, 8 interceptor Squadrons of MiG-21s and eight Squadrons of Gnats. The number of combat aircraft is 625 and personnel 80,000.

The Navy consists of an aircraft carrier, 4 submarines, 2 cruisers, 24 frigates and destroyers and 8 missile boats. Since 1965 the navy has acquired 5 Petya class frigates, 2 tank-landing ships, a submarine depot ship. The navy has 40,000 men.

Anti-tank Missiles : The SS-11 and ENTAC anti-tank wire-guided missiles are manufactured by **Bharat Dynamics Ltd., Hyderabad.** It is reported that India has acquired from Britain the SEACAT surface-to-air missiles and the shorter range TIGERCAT surface-to-air missiles for anti-aircraft protection. India also has the STYX surface-to-surface liquid-fuelled naval missiles and the SA-2 surface-to-air missiles acquired from the Soviet Union. The Indian Air Force's MiG-21s are equipped with ATOLL air-to-air infra-red missiles manufactured in India.

RECRUITMENT AND TRAINING

Recruitment of Ranks : In peace time, the demands are related to normal wastage. Considering the limited number required and the large number of candidates offering themselves for enrolment the screening procedure has been streamlined and made more effective to ensure that only the best candidates from the available material are inducted into the Services.

Physical Standards : Physical standards prescribed for recruitment of ranks in the Army have been revised upwards. Generally the increase in the physical standards ranges between 1 to 2 cms. in the height and 2 to 3 kgs. in weight. This marginal upward revision of the physical standards has not affected recruitment in the Army. On the contrary, it has improved physical standards. Discretionary powers exercised at various levels to condone shortfalls to a limited extent have been withdrawn. Minimum standards prescribed for general population are :

(*a*)	Height	164 cms.
(*b*)	Chest	78 cms.
(*c*)	Weight	51 kgs.

Corresponding physical standards are higher in respect of specified race-ethnic groups whose inherent anthropometric characteristics are better, and lower for some other classes, predominantly residing in the hill districts and backward tribal regions. The physical standards for Sailors and Airmen are different.

Instructions have been issued to recruiting officers to enrol one son of a serving soldier/ex-servicemen on a relaxed standard, such relaxations extending to 2 cms. in height, 1 cm. in chest expansion and 2 kgs. in weight. This step has been taken as a measure of welfare and also to ensure that the tradition of service in the Army to those already serving or who have retired is maintained. The new instructions have come into force with effect from February 1977.

Educational Standards : The educational standards vary from trade to trade. In the case of the Army. variations range from literate to Higher Secondary as opposed to Higher Secondary/Pre-University in the Air Force and Matriculation for all categories except cooks/stewards in the Navy.

Selection Procedure : All prospective recruits for enrolment are screened by the enrolling officers at a suitable place. The best candidates among those who fulfil the prescribed standards are selected. The practice of putting the candidates through an aptitude test at the pre-enrolment stage was discontinued with effect from 15th November 1977. These aptitude tests would now be administered at the training centres after ten weeks of training and trades would be allotted on the basis of these tests. This has been introduced with a view to eliminating a source of malpractice at the recruitment stage where the JCO Tester had the last say in the matter of recruitment of an individual who was otherwise found physically and medically fit.

Recruiting Organisation : There is a combined recruiting organisation for the Army and the Navy. There are 60 recruiting offices located in important towns, each one of which covers several districts for recruitment to the Navy as well as the Army. There is a separate recruiting organisation for the Air Force which has 13 recruiting offices. Recruiting Officers carry out recruitment at their own stations or while on tour in the interior areas in their territorial jurisdiction. Each Recruiting Officer is expected to hold one recruiting *mela* in a month and make open recruitment at these *melas*.

Recruitment of Officers : Recruitment to the officers cadres in the three Services is made on the basis of a competitive examination through the U.P.S.C. as also by the Services Selection Boards. Candidates in the age group of 16-18½ years and possessing Higher Secondary and equivalent qualifications are eligible for competing in the examination. It is worth noting in this context that although it is not obligatory for the students of the Military Schools located at Chail, Ajmer, Dholpur, Belgaum and Bangalore to sit for the U.P.S.C. examination, special care is taken to see that they develop an interest in a military career. Accordingly coaching is arranged for those students who are desirous of appearing in the U.P.S.C. Examination.

The candidates selected are imparted training at the National Defence Academy, Khadakvasla on an Inter-service basis for a period of three years. On completion of the training at N.D.A., Army Cadets go to the Indian Military Academy, Dehra Dun for further training for one year before they are commissioned. The Naval Cadets, after passing from the N.D.A. undergo afloat training for 6 months in the training squadron followed by another 6 months as midshipmen before they are commissioned. The Air Cadets undergo further training for 18 months at the Elementary Flying School, Bidar and Air Force Academy, Hyderabad, before they are commissioned.

Apart from the entry through N.D.A., there is a scheme of direct entry for candidates with graduate/post graduate qualification for the three services for various general/technical branches like, E.M.E., Engineers, Signals, Army Medical Corps, Army Service Corps, Army Education Corps etc. in the Army ; Logistics, Aeronautical Engineering, Education and Meteorological Branches of the Air Force ; and Engineering and Education Branches in the Navy. The age prescribed to these branches varies from 20 to 27 years. The selection is made through U.P.S.C as well as directly by the Services Selection Boards. There is also a scheme for entry through N.C.C. and through promotion from the ranks.

After commissioning the Army Officers are appointed as 2nd Lieutenant and Naval and Air Force Officers as Ag. Sub Lieutenant and Pilot Officers respectively. Ante date commission is given to qualified graduates in Engineering, M.B.B.S. etc.

Training : Training in the Services has been planned so as to keep the units and formations in a state of readiness so that they can take the field at short notice. Special emphasis has been laid on endurance, fortitude and mental robustness of all ranks so that they are conditioned to withstand the pressure and the intensity of fire of modern weaponry.

Intensive pre-commission training is provided to the officers in National Defence Academy, Indian Military Academy, Naval and Air Force Academies, before the officers are commissioned. After an officer has been commissioned in the Service, he undergoes a number of courses designed to fit him in his particular branch of service. In the case of Army, post-commission training in specialised branches is imparted at Infantry School, Armoured Corps and Artillery Schools, College of Military Engineering, College of Combat and High Altitude Warfare School etc. Training in Navy is provided in the training schools of various branches, *e.g.* INS "SHIVAJI" for the Engineering Branch, INS "VALSURA" for the Electrical Branch, INS "HAMLA" for the Supply Branch and INS "VENDURUTHY" for the Executive Branch. Air Force Officers undergo advanced training in the Air Force Academy, Air Force Technical College and Air Force Administrative College, etc. The Officers of the three Services are also deputed for training in the Defence Services Staff College, Institute of Defence Management and National Defence College.

Individual and collective training exercises are held periodically by the three Services so as to keep the units and formations in a state of operational readiness. The training imparted develops inter-arms and inter-service co-operation and inculcates initiative at all levels of command.

In order to keep the Armed Forces abreast of modern tactical concepts and technological advancements in foreign countries, officers are deputed to foreign countries for specialised training. Services of such officers are utilised for imparting training to other officers in respective fields.

TRAINING ESTABLISHMENTS

There are a number of training institutions where Officers are imparted pre-commission and post-commission training. There are also a few other institutions run under the auspices of the Ministry of Defence for preparation of boys for entry to the National Defence Academy, such as Rashtriya Indian Military College, Military Schools and Sainik Schools. A brief description of these important training establishments and feeder institutions is given below:

Armed Forces Medical College, Pune, Maharashtra: Admits 120 students of whom those who receive a stipend have to serve as short service commissioned officers after training. For the others preference for admission is given to those who volunteer for service.

Army Cadet College, Pune: Trains selected other ranks from the Army to acquire officer-like qualities and general academic education required for entry to the I.M.A. for grant of commission.

College of Air Warfare, Begumpet Air Force Station, Hyderabad, Andhra Pradesh: provides training to senior officers.

Defence Institute of Fire Research, New Delhi 110046: Trains personnel in the Defence organisation in modern methods of fire fighting and prevention.

Defence Institute of Stores Preservation and Packaging, Delhi: Presently a part of Defence Materials and Stores Research and Development Establishment, Kanpur, trains defence personnel in different aspects of preservation and packaging.

Defence Institute of Work Study, Mussoorie, Uttar Pradesh: Conducts work study courses, for defence personnel.

Defence Services Staff College, Wellington, Nilgiri Hills, Tamil Nadu: Conducts a 45-week course for senior officers of the three wings, some civilians and foreign officers in all aspects of staff work.

Indian Military Academy, Dehra Dun, Uttar Pradesh: Imparts pre-commission training to cadets from the N.D.A., cadets from the A.C.C. direct entry cadets and N.C.C. cadets selected for commission in the Army.

Institute of Armament Technology, Pune, Maharashtra: Trains service personnel and civilian scientific officers in the field of science and technology related to armaments.

Institute of Defence Management, Secunderabad, Andhra Pradesh: Trains service and civilian officers in modern defence management techniques.

Institute of Defence Studies and Analysis, 10, Janpath, New Delhi 110001: Set up in 1965 it carries out studies, discussions and research on various aspects of national security.

Institute of Nuclear Medicine and Allied Sciences, Probyn Rd., New Delhi 110007: It runs courses on nuclear medicine and technical studies in nuclear, biological and chemical warfare.

Military Schools: There are 5 run by the Defence Ministry, one each at Chail (Himachal Pradesh); Ajmer (Rajasthan); Belgaum (Karnataka); Bangalore (Karnataka); Dholpur (Rajasthan). The boys appear for the All India Higher Secondary Examination but are not obligated to appear for the National Defence Academy Examination.

National Cadet Corps, West Block, 4, Ramakrishnapuram, New Delhi 110022: Set up to stimulate among youth an interest in the defence of the country.

National Defence Academy, Khadakvasla, Maharashtra: Trains boys who wish to join the armed forces as commissioned officers. Age limit is 16-18½ years and qualifications higher secondary or equivalent. The standard of training reached is equivalent to that of a degree course of a University.

National Defence College, Tees January Marg, New Delhi 110011: Set up in 1960. This college trains officers of the rank of Brigadiers, and its equivalent ranks.

Officers Training School, Madras: Officers granted short service commissions in the Army are trained at this school. Admission to the OTS is made on the basis of a competitive examination convened by the U.P.S.C. followed by suitability having been assessed by a Services Selection Board.

Rashtriya Indian Military College, Dehra Dun: The admission is made twice a year in January and August, for Class VII and boys between 11 to 12 years are eligible for it. It has adopted 10 + 2 pattern of secondary education. There are a limited number of seats which are allocated normally at the rate of one seat for each State. The State Governments have instituted scholarships schemes for boys studying in the College and such boys are under obligation to take the National Defence Academy examination.

Sainik Schools: Boys between 9-18 are prepared for the NDA entrance examinations in 17 schools run by the Sainik School Society headed by the Defence Minister. The Sainik schools are affiliated to the Central Board of Secondary Education and follow the 10 + 2 pattern of secondary education.

These schools are located at: Nagrola on Tawi near Jammu (Jammu & Kashmir); Kapurthala (Punjab); Kunjura near Karnal (Haryana); Chittorgarh (Rajasthan); Balachadi (Gujarat); Satara (Maharashtra); Ghorakhal near Naini Tal (Uttar Pradesh); Rewa (Madhya Pradesh); Tilaiya (Bihar); Purulia (West Bengal); Bhubaneshwar (Orissa); Korukonda (Andhra Pradesh); Amaravathinagar (Tamil Nadu); Bijapur (Karnataka); Kazhakootam (Kerala); Goalpara (Assam); and Imphal (Manipur).

School of Directorate of Psychological Research, M-Block, New Delhi 110001: Gives training in selection, techniques and methods.

School of Foreign Languages, West Block 4, Wing No. 56, R. K. Puram, Delhi 110022: Teaches Arabic, Burmese, Chinese, French, German, Japanese, Malay/Indonesian, Persian, Russian, Spanish and Tibetan to Service personnel, government employees and a few civilians. Courses begin in April and August each year.

Schools of Nursing : Army Hospital, Delhi Cantt.; Central Command Hospital, Lucknow; I.N.H.S. Ashvini, Bombay; Air Force Hospital, Bangalore; Military Hospital, Jullundur; Military Hospital, Secunderabad; Eastern Command Hospital, Calcutta; Western Command Hospital, Chandigarh.

Other training establishments : A number of other specialised training establishments for each wing of the Armed Forces give instructions of special nature. It is not possible to list them all in this Chapter for reasons of space and, because they cater largely to the needs of the personnel already recruited.

DEFENCE PRODUCTION : The nine public sector units (see Chapter Central Govt. Undertakings) under the administrative control of the Defence Ministry produced goods worth Rs. 3,395·2 million during 1976-77 as against Rs. 2,515·2 million in 1973-74. The target for 1977-78 is Rs. 4,250·0 million.

The total investments in the nine undertakings as on March 31, 1977 was Rs. 2,355·70 million. It was likely to be around Rs. 2,580·0 million on March 31, 1978.

The total strength of employees as on March 31, 1977 was 92,000.

Export earnings : During the last four years the nine defence industries earned the following amounts of foreign exchange: 1971–72 Rs. 22·70 million; 1972–73 Rs. 35·00 million; 1973–74 Rs. 54·00 million; 1974–75 Rs. 196·40 million; 1975–76 Rs. 146·5 million.; 1976–77 Rs. 294·7 million; target for 1977–78 is Rs. 400 million.

Ordnance Factories : There are 30 ordnance and equipment factories in India producing a wide range of arms, ammunitions, military bridges, explosives, instruments, clothing, electrical cables, vehicles and various other defence stores. About 150,000 people are employed. The investment in 1975-76 was Rs. 3,510 million and the gross value of production is Rs. 4,650 million.

AGGRESSIONS AGAINST INDIA

1. First invasion on Kashmir — 23rd October, 1947.
2. Chinese infiltration into Tibet began in 1950.
3. By 1956, Chinese Army had moved along the entire boundary from Ladakh to NEFA.
4. In 1957, China had built roads in the Aksai Chin area.
5. India protested against it on October 18, 1958.
6. In March 1959 China over-ran Tibet and Dalai Lama came to India.
7. Chinese massive attack on the eastern border and Ladakh simultaneously — October 20, 1962.

   Unilateral cease fire by China on midnight November 21/22, 1962.
8. (*a*) Pakistan aggression commenced on April 9, 1965, on Kutch border.
   (*b*) Infiltrators started coming in Jammu and Kashmir on 5th August, 1965.
   (*c*) Pakistani troops entered Mendhar area in Jammu and Kashmir on 22nd August, 1965. Repulsed by India. Indian troops crossed cease fire line on 25th August, 1965.
   (*d*) Cease fire on 23rd September 1965.
9. Tashkent Agreement on 10th January, 1966.
10. Four Pakistani sabre jets intruded into Indian territory on 22nd November, 1971, near Calcutta. Three of these were shot down. On December 3, 1971, Pakistani aggression on India began with a 'pre-emptive' air strike on several airports from Srinagar to Agra. President Giri declared a state of emergency in the country, and Pakistan launched a full-scale war on India. Hostilities ceased when Pakistan surrendered in Bangla Desh on December 16, 1971 and Prime Minister Indira Gandhi announced a unilateral cease fire on the western front effective 8 p.m. on December 17, 1971.

LABOUR

WORKING POPULATION: The total working population was 139·5 million in 1951; 188·4 million in 1961; 212 million in 1970; and is expected to reach 280 million in 1980.

Total working population formed 32·92 per cent of total population according to 1971 census.

Employment : According to the 1971 census 72 per cent of the working population is engaged in the primary sector, 11·1 per cent in the secondary sector and 16·7 per cent in the tertiary sector.

The occupational structure of the rural working population also reveals that 84·8 per cent are dependent on agriculture and allied activities, 6·6 per cent on mining, manufacturing and household industry and only 8·5 per cent in trade, commerce and other services.

In the urban sector 54·9 per cent are engaged in the tertiary sector and only 32·3 per cent find employment in the secondary sector.

Sex Break-up : The sex-wise break-up of the working population shows that 82·6 per cent of the total workers are male and 17·4 per cent female.

Rate of Increase : The following table shows the sector-wise rate of increase in employment between 1966 and 1976. Figures are in millions.

	1966	1976	increase %
Organised Sector ..	16·2	20·2	24·7
Public Sector ..	9·4	13·4	42·6
Service industries ..	5·8	8·4	44·8
Manufacturing industries	4·5	5·3	17·8
Transport & communication	2·2	2·5	13·6

(Source: Labour Ministry)

Age Break-up : 5·9 per cent of the total workers are children in the age group 0 to 14 whilst 7·8 per cent are over the age of 60. The social reality is that nearly 10·8 million children are labourers despite the law against child labour, whilst lack of old age security compels people to work beyond the retirement age.

Employment Exchanges : The number of employment exchanges at the end of December, 1977, was [illegible] which includes 15 professional and executive employment offices and 66 University Employment Information and Guidance Bureaux.

The number of vacancies notified to exchanges by employers was 803,379 during 1977 against 845,574 in the previous year.

Employment of Handicapped : Special employment offices for the physically handicapped are at present functioning at Bombay, Delhi, Madras, Hyderabad, Calcutta, Kanpur, Bangalore, Ahmedabad, Chandigarh (Punjab & Haryana separately), Trivandrum, Patna, Jabalpur, Jaipur, Simla and Cuttack. Sanction for setting up special employment exchanges one each at Srinagar, Gauhati and Agarthala has been issued. In addition Vocational Rehabilitation Centres are at present functioning, one each at Bombay, Hyderabad, Delhi, Kanpur, Jabalpur, Ludhiana, Calcutta, Madras and Ahmedabad for vocational evaluation and imparting adjustment training to physically handicapped persons.

Apprentice Training Scheme : Under the apprentice Act, 1961, it is obligatory on the part of employers in organised sectors to engage apprentices as per ratio fixed by Central Government. Persons possessing qualifications from 5th standard to 10th standard are engaged as apprentices in 103 different designated trades in 217 industries. 154,576 trade apprentices were undergoing training as on 31st December, 1977. Out of this roughly 33·7 per cent belong to Scheduled Castes/Scheduled Tribes, physically handicapped, minorities and women. Also, 15,405 graduate and technician apprentices have been engaged.

Stipend : The present rate of stipend for various categories of apprentices is — Trade apprentices in the first year of their training get Rs. 130 per month, Rs. 140 during the second year, Rs. 150 per month for the third year and Rs. 200 for the fourth year. Engineering graduate apprentices get Rs. 280 per month, while sandwich students from diploma institutions get Rs. 180 per month.

Industrial Relations : An analysis of the statistics during the last seven years shows that on an average the total man-days lost ranged around 20 million, except in 1971 when it came down to 16·55 million, due to restraint exercised by employees and employers during the Indo-Pakistan war ; in 1974, when it rose to the peak of 40·26 million because of the strike by railwaymen; and in 1976 when it came down to 12·80 million because of the emergency. According to available provisional figures the number of man-days lost during 1977 was 21·21 million.

A marked feature of the labour situation from 1971 onwards is that the percentage of time loss due to lockouts showed an upward trend ; in 1976 lockouts accounted for 78·83 per cent of the total man-days lost whereas in 1977 it came down to 52·83 per cent. In the Central sphere, the time loss during 1977 was 10 per cent of the total time loss. The public sector accounted for 15 per cent of the total mandays lost during 1977. (See table on "Labour Situation in 1977" at end of chapter.)

Employment Situation : Employment in the organised sector increased from 19·67 million at the end of March 1975 to 20·21 million at the end of March, 1976 recording an increase of 2·7 per cent

Public Sector : Employment in the public sector, which accounted for slightly more than 66 per cent of the total. increased from 12·87 million at the end of March, 1975 to 13·36 million at the end of March, 1976, contributing a growth rate of 3·9 per cent during 1975–76 as against an increase of 3·0 per cent achieved during the previous year. An analysis of the different branches of the public sector showed that the employment under Quasi-Government Establishments continued to record the highest gain of the order of 6·3 per cent during 1975–76 as against 9·6 per cent in 1974–75. The growth rate under Central Government was 4·0 per cent followed by Local bodies 2·3 per cent and State Government 2·0 per cent during 1975-76.

Private Sector : In the private sector, the quantum of employment increased slightly by 0·6 per cent during the year 1975–76 as against a negative growth rate of 0·2 per cent recorded during 1974–75. In absolute terms, the employment increased marginally from 6·80 million in March, 1975 to 6·84 million in March, 1976.

CLASSIFICATION OF WORKING POPULATION

(Figures in million)

	Total		Rural		Urban	
	No.	Per Cent	No.	Per Cent	No.	Per Cent
Total workers	**180·37**	**100**	**148·37**	**100**	**32·00**	**100**
Primary Sector :						
Cultivators	78·18	43·3	76·54	51·6	1·63	5·1
Agro Labour	47·49	26·3	45·57	30·7	1·92	6·0
Livestock, Forestry, Fishery etc. ..	4·30	2·4	3·76	2·5	0·54	1·7
Sub-Total	129·96	72·0	125·87	84·8	4·09	12·8
Secondary Sector:						
Mining & Quarrying	0·92	0·5	6·0	0·4	0·32	1·0
Household Industry	6·35	3·5	4·76	3·2	1·59	5·0
Other than Household Industry ..	10·72	5·9	3·40	2·2	7·31	22·8
Construction	2·21	1·2	1·10	0·8	1·12	3·5
Sub-Total	20·21	11·1	9·86	6·6	10·34	32·3
Tertiary Sector :						
Trade & Commerce	10·04	5·6	3·62	2·4	6·41	20·0
Transport, Storage & Communications	4·40	2·4	1·21	0·8	3·19	10·0
Other Services	15·76	8·7	7·80	5·3	7·96	24·9
Sub-Total	30·21	16·7	12·63	8·5	17·56	54·9

Source : Census of India 1971 Series 1.

EMPLOYMENT IN PUBLIC AND PRIVATE SECTORS

(Numbers in million)

As at the end of March	PUBLIC SECTOR					Private Sector	Grand Total
	Central Govt.	State Govt.	Quasi Govt.	Local bodies	Total		
1962	2·186	3·087	0·879	1·365	7·417	5·160	12·577
1973	2·918	4·579	2·578	1·900	11·975	6·849	18·824
1974	2·939	4·706	2·912	1·928	12·485	6·794	19·279
1975	2·988	4·748	3·192	1·940	12·868	6·803	19·671
1976	3·047	4·939	3·392	1·985	13·363	6·844	20·207

EMPLOYMENT INDUSTRY-WISE

(No. in million)

Year	Plantation, Forestry etc.[1]		Mining and Quarrying		Manufacturing		Construction	
	Public	Private	Public	Private	Public	Private	Public	Private
1962 ..	0·174	0·740	0·145	0·480	0·421	3·050	0·641	0·180
1973 ..	0·305	0·806	0·436	0·251	0·962	4·104	1·017	0·176
1974 ..	0·324	0·805	0·606	0·134	1·027	4·179	0·997	0·121
1975 ..	0·340	0·818	0·694	0·123	1·019	4·109	0·956	0·127
1976 ..	0·401	0·827	0·719	0·132	1·113	4·158	0·992	0·094

EMPLOYMENT INDUSTRY-WISE — (*Contd.*)

(No. in million)

Year	Electricity[2]		Trade & Commerce[3]		Transport & Communications[4]		Service[5]		Finance, Real Estate Services	Insurance & Business	Total†	
	Public	Private	Public	Private	Public	Private	Public	Private			Public	Private
1962 ..	0·234	0·040	0·109	0·190	1·797	0·120	3·896	0·360	—	—	7·417	5·160
1973 ..	0·494	0·045	0·416	0·311	2·303	0·079	6·041	1·077	—	—	11·975	6·849
1974 ..	0·537	0·042	0·449	0·318	2·313	0·077	6·232	1·118	—	—	12·486	6·794
1975 ..	0·507	0·039	0·053	0·309	2·363	0·079	6·936	1·200	0·490	0·183	12·868	6·804
1976 ..	0·536	0·035	0·656	0·287	2·418	0·074	6·639	1·055	0·490	0·183	13·363	6·844

Note: † Totals in rows and columns may not add up due to rounding off. * Figures prior to March 1975 are based on Standard Industrial Classification, 1960 and that for the years March 1975 onwards are based on National Industrial Classification, 1970 and as such they are not comparable. (1) Includes agriculture, hunting & fishing; (2) Includes gas & water; (3) Covers wholesale and retail trade and hotels and restaurants. (4) Includes storage also; (5) Services include financing, insurance, real estate and business services, community, social and personal services. In respect of footnotes (1 to 5), figures relate to the year 1975 only.

Unemployment : Number of job-seekers on the live register of employment exchanges was 9·78 million at December, 1976. The number increased by 11·6 per cent to 10·92 million in December, 1977. The number of educated job-seekers (i.e. matriculates and above) on the live register increased by 9·3 per cent from 4·93 million at the end of June, 1976 to 5·39 million at the end of June, 1977. 48·2 per cent of the total number of job-seekers are below matriculate level including illiterates. Among the educated job-seekers at the end of June, 1977, 2·97 million (28·6 per cent) were matriculates, 1·33 million (12·7 per cent) undergraduates and 1·09 million (10·5 per cent) graduates and post-graduates. Among the graduates 45·7 per cent had arts subjects, 25·7 per cent sciences, 14·7 per cent commerce, 1·8 per cent engineering, 0·8 per cent medicine, 0·9 per cent agriculture, 0·3 per cent law, 9·0 per cent education and 1·1 per cent other subjects.

The state-wise break-up of job-seekers at the end of December, 1977 indicated that the largest number of job seekers was in West Bengal — 1·40 million followed by Uttar Pradesh — 1·31 million; Bihar — 1·07 million; Maharashtra — 0·92 million; Tamil Nadu — 0·92 million; Kerala — 0·85 million and Andhra Pradesh 0·80 million.

Wages : The average annual earnings of low paid workers drawing less than Rs. 450 per month in the manufacturing industries increased from Rs. 1,955 in 1965 to Rs. 3,011 in 1973. The number of such workers in 1973 was 2·99 lakhs.

The average emolument of a Central public sector worker during 1975-76 was Rs. 9,000. Total payment to employees in the Central public sector was Rs. 13,520 million during the same period.

Trade Unions (See chapter on Trade Unions).

Employees State Insurance Corporation : The E.S.I. Scheme covers 6·0 million insured persons for provision of social security benefits and extends medical care to 23·3 million population. An amount of Rs. 343·27 million was disbursed to insured persons towards cash benefits and Rs. 364·23 million were spent on provision of medical care during 1976-77. The Corporation has spent Rs. 566 million on construction of ESI Hospitals, annexes and other institutions upto 31st December, 1977 and 62 hospitals and 24 annexes with 12,858 beds have been commissioned.

Labour Education & Training: (See chapter on Education).

Employees' Provident Fund & Miscellaneous Provisions Act, 1952.

Under this act three schemes have been framed viz.: (*i*) Employees' Provident Fund Scheme, (*ii*) Employees' Family Pension Scheme and (*iii*) Employees' Deposit Linked Insurance Scheme.

The salient features, in brief, of these Schemes are as follows:—

Employees' Provident Fund Scheme: The Act and the Scheme has been made applicable to 154 specified industries/classes of establishments so far. All the factory/establishments engaged in one or more of these industries and employing 20 or more persons and having completed the infancy period (viz. 3 years for establishments employing 50 or more persons and 5 years for those employing more than 20, but less than 50 persons). The statutory rate of provident fund contribution — each share — is 8 per cent of pay (i.e. basic wages, dearness allowance including cash value of food concession, if any, and retaining allowances,

Labour Situation in 1977 at a Glance

Sl. No.	State/Union Territory	No. of industrial disputes referred to I.R.M.	No. of failure reports received	Adjudication, Arbitration & Awards				Strikes & Lockouts (P)		
				No. of disputes referred for		No. of disputes for which awards are available		No. of strikes and lockouts	No. of workers involved	No. of man-days lost
				Adjudication	Arbitration	In favour of workers	Against workers			
1	2	3	4	5	6	7	8	9	10	11
1.	Centre ..	5,340	1,180	517	13	N.A.	N.A.	581	6,66,797	1,894,406
2.	Andhra Pradesh	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	22	15,433	348,350
3.	Assam ..	N.A.	N.A.	201	..	31	49	2	1,608	3,396
4.	Bihar	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	145	1,42,928	2,049,398
5.	Gujarat ..	3,957	1,352	593	..	102	324	150	29,511	264,645
6.	Haryana (P) ..	2,086	689	380	28	67	107	89	31,825	540,716
7.	Himachal Pradesh ..	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	1	51	2,295
8.	Jammu and Kashmir ..	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Nil	Nil	Nil
9.	Karnataka ..	1,296	469	68	2	91	102	64	48,431	576,710
10.	Kerala ..	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	132	76,233	889,919
11.	Madhya Pradesh	594	108	70	3	43	17	77	50,034	153,898
12.	Maharashtra ..	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	242	1,24,578	1,037,924
13.	Manipur ..	Nil	Nil	2	Nil	Nil	Nil	1	125	1,175
14.	Meghalaya ..	33	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
15.	Nagaland ..	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Nil	Nil	Nil
16.	Orissa (P) ..	369	193	37	1	20	9	57	16,375	131,450
17.	Punjab (P) ..	5,430	2,821	2,952	13	1,152	781	47	21,221	229,665
18.	Rajasthan ..	930	407	397	35	195	197	98	32,989	442,581
19.	Sikkim ..	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
20.	Tamil Nadu ..	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	301	2,54,136	2,606,822
21.	Tripura	89	Nil	Nil	Nil	1	Nil	3	209	2,429
22.	Uttar Pradesh	5,425	3,750	2,232	10	1,110	713	155	63,358	1,246,526
23.	West Bengal ..	(A)9151(P)	(B)638(P)	481	1	191	7	392	2,47,710	8,424,282
24.	Andaman & Nicobar Islands ..	60	8	4	..	1	..	7	1,939	2,217
25.	Arunachal Pradesh ..	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
26.	Chandigarh ..	110	34	29	5	6	2	Nil	Nil	Nil
27.	Dadra & Nagar Haveli ..	Nil	Nil	Nil	Nil	Nil	Nil	2	288	2,360
28.	Delhi	3,649	1,239	607	5	181	107	28	3,837	43,042
29.	Goa, Daman & Diu ..	216	21	21	1	7	13	28	3,994	61,100
30.	Lakshdweep ..	Nil	Nil	Nil	Nil	Nil	Nil	2	73	1,618
31.	Mizoram ..	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
32.	Pondicherry ..	183	20	24	..	7	9	27	43,027	257,357
	TOTAL ..	38,918	12,929	8,615	117	3,214	2,437	2,653	1,876,710	21,214,281

(*Source:* Labour Ministry Report)

(P) Provisional.

N.A. — Not Available.

(A) This includes 2,959 cases brought forward from 1976.

(B) This includes 79 cases not recommended for adjudication.

if any) in respect of factories/establishments engaged in 94 industries/classes of establishments and employing 50 or more persons; and 6·25 per cent in respect of the other factories/establishments.

The qualifying period of service for membership to the provident fund is six months' continuous service *or* 120 days of actual work during a period of six months or less *or* on becoming permanent, whichever is earliest.

Employees' Family Pension Scheme : Under this Scheme, employee's share of contribution is at the rate of 1⅙ per cent of pay with an equal amount of employer's contribution. The Central Government also contributes at the rate of 1⅙ per cent of the pay of the members. This scheme provides benefits in the shape of Family Pension, Life Assurance benefit, retirement benefit and withdrawals benefits as per provisions laid down in the Scheme.

Employees' Deposit Linked Insurance Scheme: This Scheme came into force with effect from August 1, 1976. According to this Scheme, in the event of death of an employee who was a subscriber to the Employees' Provident Fund or the Exempted Provident Fund, as the case may be, the person entitled to receive his Provident Fund accumulations would be entitled to an additional payment equivalent to the average balance in the provident fund of the deceased during the preceding three years subject to the maximum of Rs. 10,000.

The distinguishing feature of this Scheme is that the employee is not required to make any contribution but he is required to keep a minimum balance of Rs. 1,000 in his Provident Fund. As regards contribution under this scheme the employers and the Central Government will contribute to the Insurance fund at the rate of 0·05 per cent and 0·25 per cent respectively of the wage bill of the employees every month.

Statistics (as on Sept. 30, 1976) : No. of classes of establishments/industries covered: 150; No. of establishments covered : Exempted 2,846, Un-Exempted 68,466; No. of Subscribers covered : Exempted 3,060,840, Un-Exempted 5,001,751; P. F. Contributions received (Rs. in million) : Exempted 28,533·6, Un-Exempted 15,757·7; Amount Refunded on account of final settlement of claims, advances, etc. (Rs. in million) : Exempted 12,352·2, Un-Exempted 5,604·2; Investment made (Rs. in million) : Exempted 17,615·1, Un-Exempted 14,530·4.

Prosecution Cases : (Un. Ex. Estts. Only) (*i*) Launched : 67,660; (*ii*) Disposed of 50,856 of which Convicted 38,872; Acquitted/Admonished 2,020; Withdrawn 8,950; Dismissed/Discharged 1,014; (*iii*) Pending in courts : 16,804.

Recovery Proceedings : (*a*) Instituted 76,643; (*b*) Settled 59,792; (*c*) Pending 16,850.

Bonded Labour

State/U.T.	Total number of bonded labourers (position as on 31st Dec. 1977) Identified	Freed	Rehabilitated
Andhra Pradesh ..	4,148	4,148	3,002
Bihar	2,562	2,301	613
Gujarat	42	42	42
Karnataka	64,042	64,042	6,876
Orissa	627	316	312
Madhya Pradesh ..	1,612	1,506	33
Kerala	900	900	186
Rajasthan	6,000	5,580	2,496
Tamil Nadu ..	2,882	2,882	2,363
Uttar Pradesh ..	19,242	19,242	12,805
Mizoram	3	3	—
Total	102,060	100,962	28,728

Employment Publications : The Directorate of Advertising and Visual Publicity of the Government of India began in April, 1976, to bring out "Employment News" in English and "Rozgar Samachar" in Hindi every week.

TRADE UNIONS

All-India Port and Dock Workers' Federation. *Headquarters :* Port Shramik Bhawan, 26, Dr. Sudhir Basu Rd., Calcutta-700023.

Established : By P. D'Mello and Sibanlal Saxena in the year 1948.

President's Office : P. D'Mello Bhawan, P. D'Mello Rd., Carnac Bunder, Bombay-400038.

Regional Office : 18, Krishnan Koil St., George Town, Madras-600001.

Total Membership : 175,000.

Number of Affiliated Unions : 28.

Present Office-bearers :

President : S. R. Kulkarni.

Vice-Presidents : S. C. C. Anthony Pillai; Dr. S. Maitra; M. K. Raghavan and Nishamoni Khuntia.

General Secretary : Makhan Chatterjee.

Organising Secretary : K. A. Khan.

Assistant Secretary : G. D. Ball.

Treasurer : B. Dharma Rao.

All-India Trade Union Congress ; 24, Canning Lane, New Delhi-110001.

Established : 31-10-1920.

Regional Offices : Shivshakti, Dr. A. Besant Rd., Bombay-400018; 144, Lenin Sarani, Calcutta-700013 and office of State committees in all the States and Union Territories.

Total Membership : 2,641,301.

Number of Affiliated Unions : 2,879.

Present Office-bearers :

President : S. A. Dange.

Vice-Presidents : Indrajit Gupta,; M. S. Krishnan, M.L.A.; B. D. Joshi; Mohd. Elias; Chaturanan Mishra, M.L.A.; J. Chittaranjan, M.L.A.; Homi F. Daji; N. K. Krishnan; V. Subbiah, M.L.A.

General Secretary : K. G. Sriwastava.

Secretaries : Parvathi Krishnan, M.P.; N. C. Dutta; T. N. Siddhanta; Y. D. Sharma; Dr. Raj Bahadur Gour.

Treasurer : Smt. Roza Deshpande.

Centre of Indian Trade Unions: 6, Talkatora Road, New Delhi 110001. *Sub.-Office :* 172, Lenin Sarani, Calcutta 700013.

Established : 30-5-1970.

Regional Offices at : Delhi, Jullunder, Jaipur, Ahmedabad, Bombay, Goa, Trivandrum, Bangalore, Madurai, Vijayawada, Cuttack, Bhilai, Kanpur, Patna, Calcutta, Gauhati and Agartala.

Total Membership : 1,112,328 (1975).

Number of Affiliated Unions : 2,231.

Present Office-bearers :

President : B. T. Ranadive.

Vice-Presidents : Jyoti Basu, Mohammed Ismail, S. Y. Kolhatkar, E. Balanandan, Sudhin Kumar, S. Mullick Chowdhury, K. Ramani.

General Secretary : P. Ramamurti.

Secretaries : Niren Ghosh, Kamal Sarkar, Samar Mukherjee, M.P., M. K. Pandhe, Mohan Punamiya, Nrisingha Chakravarty.

Treasurer : Monoranjan Roy.

Official Publication : 'The Working Class' (Monthly Journal).

Editor : M. K. Pandhe.

Hind Mazdoor Sabha : Nagindas Chambers, 167, P. D'Mello Rd., Bombay-400038.

Established : 1948.

Total Membership : 1,144,164.

Number of Affiliated Unions : 635.

Present Office-bearers :

President : Makhan Chatterjee.

General Secretary : Mahesh Desai.

Secretaries : Ram Desai, Vasant Gupte.

Treasurer : Kisan Tulpule.

Indian National Trade Union Congress : 1B, Maulana Azad Rd., New Delhi-110011.

Established : 3-5-1947.

Total Membership : 3,070,795.

Number of Affiliated Unions : 3,135.

Present Office-bearers :

President : B. C. Bhagwati, M.P.

General Secretary : G. Ramanujam.

Assistant Secretaries : R. L. Thakar ; S. L. Passey.

Treasurer : C. M. Stephan, M.P.

Official Publication : 'Indian Worker', Weekly.

Editor : S. N. Rao.

Rashtriya Mill Mazdoor Sangh : Mazdoor Manzil, G. D. Ambekar Marg, Parel, Bombay-400012.

Established : By late G. D. Ambekar on 19-5-1940.

Total Membership : 110,000.

Present Office-bearers :

President : Rajni Patel.

Vice-Presidents : Ram Bandiwadekar, Jagnath Mahadik, Tarabhai Hirlekar, Maruti Ghag, Parwati Chavan and Abdul Sattar Rehimulla.

General Secretary : A. T. Bhosale.

Secretaries : M. L. Paradkar, R. Y. Walawalkar, S. M. Jadhav, G. B. Parab, Y. R. Khanvilkar, D. S. Pawaskar, D. S. Bhilare, M. P. Thorat, V. B. Arolkar, R. D. Hulawale, R. N. Musle, Manohar Nare and G. Baretto.

Treasurer : Miss E. D'Souza.

Trade Unions, International Confederation of Free (Asian Regional Organisation) : (ICFTU-ARO), P-20, Green Park Extn., New Delhi 110016. Affiliating twenty-nine trade union organisations from eighteen Asian countries with more than twenty-two million members. *Pres.,* C. V. Devan Nair ; *Regnl. Secy.,* V. S. Mathur.

United Trades Union Congress : 249, Bepin Behari Ganguly St., Calcutta-700012.

Established : By late Mrinal Kanti Bose, late K. T. Shah and Jatin Chakravorty in the year 1949.

Regional Offices: 780, Ballimaran, Delhi-110011 ; 11, Mc Lean Street, Madras-600001 ; 119/75, Darshanpurwa, Kanpur-208012 ; Cantonment, Quilon ; Jakkanpur, New Area, Patna-800001 ; 5th Rd., Santa Cruz East, Bombay 400055.

Total Membership : 363,287.

Number of Affiliated Unions : 469.

Present Office-bearers :

President : N. Srikantan Nair.

Vice-Presidents : Tridib Chaudhury, Jayram Shetty, S. V. R. Acharia and Thakur Mukund Singh Vaid.

General Secretary : Jatin Chakravorty.

Secretaries : Baby John and Durga Bagchi.

Treasurer : Sunil Sengupta.

TIME DIFFERENCE

THE following table gives the time in the various important cities of the world when it is 5·30 p.m. in India. The calculations are based on Greenwich time i.e. when it is 12 noon at Greenwich, England, it is 5·30 p.m. in India.

Accra, Ghana	12 Noon
Adelaide, Australia	9·30 p.m.
Algiers	1·00 p.m.
Amsterdam, Netherlands	1·00 p.m.
Ankara, Turkey	2·00 p.m.
Athens, Greece	2·00 p.m.
Baghdad, Iraq	3·00 p.m.
Baltimore, U.S.A.	7·00 a.m.
Bangkok, Thailand	7·00 p.m.
Belgrade, Yugoslavia	1·00 p.m.
Berlin, Germany	1·00 p.m.
Berne, Switzerland	1·00 p.m.
Boston, U.S.A.	7·00 a.m.
Brisbane, Australia	10·00 p.m.
Brussels, Belgium	1·00 p.m.
Budapest, Hungary	1·00 p.m.
Buenos Aires, Argentina	9·00 a.m.
Cairo, Egypt	2·00 p.m.
Calgary, Canada	5·00 a.m.
Canberra, Australia	10·00 p.m.
Cape Town, South Africa	2·00 p.m.
Chicago, U.S.A.	6·00 a.m.
Colombo, Ceylon	5·30 p.m.
Copenhagen, Denmark	1·00 p.m.
Darwin, Australia	9·30 p.m.
Detroit, U.S.A.	7·00 a.m.
Dublin, Ireland	12 Noon
Freetown, Sierra Leone	12 Noon
Gibraltar	1·00 p.m.
Halifax, Nova Scotia	8·00 a.m.
Hamilton, Bermuda	8·00 a.m.
Havana, Cuba	7·00 a.m.
Helsinki, Finland	2·00 p.m.
Hong Kong	8·00 p.m.
Honolulu, Hawaii	2·00 a.m.
Jerusalem, Israel	2·00 p.m.

Johannesburg, S. Africa	2·00 p.m.
Karachi, Pakistan	5·00 p.m.
Kingston, Jamaica	7·00 a.m.
Kuala Lumpur, Malaysia	7·30 p.m.
Lagos, Nigeria	1·00 p.m.
Leningrad, U.S.S.R.	3·00 p.m.
Lima, Peru	7·00 a.m.
Lisbon, Portugal	12 Noon
London	12 Noon
Los Angeles, U.S.A.	4·00 a.m.
Luxembourg	1·00 p.m.
Madrid, Spain	1·00 p.m.
Mandalay, Burma	6·30 p.m.
Melbourne, Australia	10·00 p.m.
Mexico City	6·00 a.m.
Montevideo, Uruguay	9·00 a.m.
Montreal, Canada	7·00 a.m.
Moscow, U.S.S.R.	3·00 p.m.
Nairobi, Kenya	3·00 p.m.
New York	7·00 a.m.
Nicosia, Cyprus	2·00 p.m.
Oslo, Norway	1·00 p.m.
Ottawa, Canada	7·00 a.m.
Panama	7·00 a.m.
Paris	1·00 p.m.
Peking, China	8·00 p.m.
Perth Australia	8·00 p.m.
Port of Spain, Trinidad	8·00 a.m.
Prague, Czechoslovakia	1·00 p.m.
Quebec, Canada	7·00 a.m.
Quito, Ecuador	7·00 a.m.
Reykjavik, Iceland	11·00 a.m.
Rio de Janeiro	9·00 a.m.
Rome	1·00 p.m.
St. John's, Newfoundland	8·30 a.m.
Salisbury, Southern Rhodesia	2·00 p.m.
San Francisco, U.S.A.	4·00 a.m.
Santiago, Chile	8·00 a.m.
Seoul, Korea	8·30 p.m.
Singapore	7·30 p.m.
Stalingrad, U.S.S.R.	4·00 p.m.
Stockholm, Sweden	1·00 p.m.
Sofia, Bulgaria	2·00 p.m.
Suva, Fiji	12 Midnight
Sydney, Australia	10·00 p.m.
Teheran, Iran	3·30 p.m.
Tirana, Albania	1·00 p.m.
Tokyo, Japan	9·00 p.m.
Toronto, Canada	7·00 a.m.
Vancouver, Canada	4·00 a.m.
Vienna, Austria	1·00 p.m.
Warsaw, Poland	1·00 p.m.
Wellington, New Zealand	12 Midnight
Winnipeg, Canada	6·00 a.m.

AWARDS AND PRIZES

THE Republic Day awards have been discontinued since 1978 hence we have omitted the list from this chapter. Those interested in the names of past awardees are requested to refer to the earlier editions of the Directory — Editor.

DEFENCE AWARDS

(1978)

Param Vishisht Seva Medal : The President has approved the award of the Param Vishisht Seva Medal for distinguished service of the most exceptional order to 12 officers of the defence services and nine civilians.

They are : Lt.-Gen. Charanjit Singh, Lt.-Gen. Gurbaksh Lal Chopra, Lt.-Gen. Raipall Sapra, Vice-Admiral Swaraj Parakash, Air Marshal Trilok Nath Ghadiok, Maj.-Gen. Aban Naidu, Maj.-Gen. Shrinivas Sadashiv Apte, Maj.-Gen. Krishnaswami Sundarji, Maj.-Gen. Manohar Lal Chhibber, Air Vice-Marshal Davendra Nath Gupta, Air Vice-Marshal Achutha Viswanathan and Col. Narinder Kumar.

K. L. Sareen, Engineer, Indian Oil Corporation Ltd., Kurpati, Bastar district (M.P.), Sqn. Ldr. Deepak Yadav F(P) (Posthumous), Lance Naik Hoshiar Singh, Raj. Rifles (Posthumous), Rama Rao Dattatarya Deshmukh, Signals (Posthumous), Sepoy Dhan Singh, Army Medical Corps (Posthumous), Naik Ajit Singh, Engineers (Posthumous), Maj. Prem Chand, VSM, Dogra, and Naik Nima Doreje Sherpa, 3, GR.

Ati Vishisht Seva Medal has been awarded for distinguished service of an exceptional order to the following members :— Air Vice-Marshal Chandramowleswaran, VSM A E(E), Brig. Rajinder Singh Chaudhri, Infantry, Brig. Mohan Lal Chadha, Artillery, Brig. Man Singh Oberoi, AOC, Brig. Vadakkepat Gopalan, EME, Brig. Jagdish Raj Malhotra, Artillery, Brig. Prem Nath Hoon, SM, Infantry, Brig. Jitendra Kumar Puri, Artillery, Brig. Kirpal Singh Randhawa, Armoured Corps, Brig. Rathindra Nath Dutta AMC (Retd.), Brig. Gopal Muthu Krishnan, AOC (Retd.); Commodore Balbir Singh Randawa IN, Air Commodore Erasseri Pathayapurayil Radhakrishnan Nair, VSM F(N), Air Commodore Hari Vinayak Pathak, Administrative, Air Commodore Brijpal Singh Sikand F(P), Air Commodore Jayaram Nilkanth Jatar, VM, F(P), Col. Chandar Mohan Sahni, Engineers, Col. Basant Ballabh Upreti, VSM, Sikh, Col. Guman Singh, 9 GR, Col. Pattanath Shankeran Vasudevan, Punjab, Col. Jagmohan Grover, AMC, Col. Nuggenahilli Seshamtruhy, Dwarka Nath, Signals, Col. Ved Prakash Gupta, Intelligence Corps, Col. Girdhari Singh, ASC, Captain Mankeshwar Singh Ratra, VSM, IN, Captain Peruvemba Ramanathan Subramanian, IN, Captain Rattan Nath Pareek, IN, Group Captain Prithi Singh, VM, F(P), Group Captain Dayashankar Mishra, VM AE(M), Company Havildar Major Chhering Murbu, SM, VSM, Ladakh Scouts, and Sergeant Venkate Ramiah Kantheti, Airfield Safety operator.

Shaurya Chakra : Has been awarded for gallantry to the following personnel: Jem. [illegible] Prem. Har Karan, Karahal, Morena district, (M.P.); Squadron Leader Kailash Singh Parihar F(P); Flt. Lieutenant Ramesh Chandra Ghildiyal F(P) (Posthumous); EEM Ramnath Sharma, GREF (Posthumous); Subedar Nand Ram, Raj. Rifles; Mohinder Singh, Civilian driver; Squadron Leader Shivacharan Singh Tomar, Logistics; Lance Naik Sorman Rai, 11, GR; Naik Subedar Ram Kumar Yadav, Kumaon (Posthumous); Corporal Rishi Kesh Tiwari, Telst/RT Operator; Corporal [illegible] Prasad, [illegible] general duties); [illegible] Singh, [illegible] village, [illegible] district ([illegible]); Havildar Sukhvinder Singh, SAS (Posthumous); Sapper Anand Yadav, Engineers (Posthumous), Sepoy [illegible] Sukhdeorao Kale, M.L.I. (Posthumous); and Squadron Leader Sukhmander Singh Sidhu, VM, F(P).

Other R-Day awards include 32 *Sena Medals*, 10 *Nao Sena Medals*, 10 *Vayu Sena Medals* and 52 *Vishisht Seva Medals* to different members of the Defence Service.

ARJUNA AWARDS (1976)

Athletics : Hari Chand ; Miss Geeta Zutshi ; Miss V. Anasuya Bal ; *Badminton :* Devinder Ahuja ; *Ball Badminton :* L. A. Iqbal ; *Cricket :* S. M. Gavaskar ; Miss Shanta Rangaswami ; *Basketball :* Hanuman Singh ; *Cycling :* Amar Singh ; *Golf :* S. K. Jamshed ; *Hockey :* B. P. Govinda and Miss Rupa Saini ; *Gymnastics :* Mantu Debnath ; *Kho-Kho :* Miss Usha Vasant Nagarkar and Srirang Janardhan Inamdar ; *Polo :* Maj. V. B. P. Singh ; *Volleyball :* Ranvir Singh and Miss K. C. Elamma ; *Weightlifting :* Dalbir Singh and *Swimming :* M. S. Rana and Miss Smita Desai.

BHATNAGAR AWARD (1976 & 1977) : The award instituted by the Council of Scientific & Industrial Research in 1957, in memory of Dr. Shanti Swarup Bhatnagar carries a prize of Rs. 10,000 in each discipline.

The discipline and names of recipients respectively for 1976 are :—*Biological Science :* Dr. Kishan Singh (Indian Instt. of Sugarcane Research) & Dr. G. P. Datta (Central Drug Res. Instt.) ; *Chemical Science :* Prof. D. Devaprabhakara (I.I.T., Kanpur) ; *Earth Science :* Dr. M. K. Bose (Pres. Coll., Calcutta) & Dr. K. S. Valdiya (Kumaun Univ.); *Engineering Science :* Dr. Rajinder Kumar (Ind. Instt. of Sciences) & Dr. Rajaraman (I.I.T., Kanpur); *Mathematical Science :* Prof. K. R. Parthasarathy (Indian Statistical Instt.) & Prof. S. K. Trehan (Punjab Univ.) ; *Medical Science :* Dr. N. R. Mondgal (Ind. Instt. of Science) ; *Physical Science :* Prof. C. K. Majumdar (Calcutta Univ.) and Prof. R. Vijayaraghavan (T.I.F.R.).

1977 :

Biological Science : Dr. T. C. Anand (All India Inst. of Med. Sciences) ; *Mathematical Sciences :* Prof. M. S. Raghunathan (T.I.F.R.) ; *Chemical Sciences :* Prof. Mihir Chawdhury (Ind. Assoc. for Cultivation of Science) and Prof. S. Ranganathan (I.I.T., Kanpur) ; *Earth Sciences :* Dr. K. L. Kaila, (Nat. Geophysical Res. Inst.) and Dr. Subir Kumar Ghosh (Jadavpur University) ; (no awards were announced in *Physical*, *Medical* and *Engineering Sciences*).

RASHTRA BHUSHAN : Jayaprakash Narayan was conferred the title "Rashtra Bhushan" with a cash award of Rs. 100,000 on May 17, 1977.

The title, instituted this year by the Fuel Instrument Engineers Foundation, Ichalkaranji, was presented to Jayaprakash Narayan by M. C. Chagla, former External Affairs Minister.

SAHITYA AKADEMI AWARDS (1977)

The akademi has recognised 22 languages and dialects for consideration of awards. It had so far given 271 awards each carrying a cash prize of Rs. 5,000 and an inscribed copper plaque.

Following are the names of the award-winning books and authors of different languages :

Assamese : 'Bakul Banar Kavita' (Poetry), Anand Chandra Barua ; *Bengali :* 'Babarer Prarthana' (Poetry), Shankha Ghosh ; *Dogri :* 'Main Mele Ra Janun' (Poetry), Kehari Singh 'Madhukar' ; *English :* 'Azadi' (Novel), Chaman Nahal ; *Gujarati :* 'Uparvas Kathatrayi' (Novel), Raghuvir Chaudhari ; *Hindi :* 'Chuka Bhi Hun Nahin Main' (Poetry), Shamsher Bahadur Singh ; *Kannada :* 'Teroda Bagilu' (Poetry), K. S. Narasimhaswamy ; *Konkani :* 'Himalayant' (Travelogue), Ravindra Kelekar ; *Maithili :* 'Avahatta — Udbhava O Vikas' (Literary Criticism), (late) Rajeshwar Jha ; *Malayalam :* 'Agnisakshi' (Novel), Lalithambika Antharjanam ; *Manipuri :* 'Aseibagi Nitaipod' (Poetry), A. Minaketan Singh ; *Marathi :* 'Dashapadi' (Poetry), A. R. Deshpande 'Anil' ; *Nepali :* 'Nepali Upanyas Ka Adharharu' (Literary Criticism), Indra Bahadur Rai ; *Oriya :* 'Kumbhara Chaka' (Autobiography), Kali Charan Pattanaik ; *Punjabi :* 'Kach De Vastar' (Poetry), Sohan Singh Misha ; *Rajasthani :* 'Bol Bharmali' (Poetry), Satya Prakash Joshi ; *Sanskrit :* 'Buddhavijayakaavyam' (Poetry), Shanti Bhikshu Shastri ; *Tamil :* 'Kuruthi Punal' (Novel), Indira Parthasarathi ; *Telugu :* 'Kundurti Kritulu' (Poetry), Kundurti Anjaneyulu.

SANGEET NATAK AKADEMI AWARDS (1977)

Fellowship : Hirjibhai R. Doctor.

Music : Girja Devi — Hindustani Vocal ; Asad Ali Khan — Hindustani Instrumental (Been) ; Sripada Pinakapani — Karnatak Vocal ; S. Balachander — Karnatak Instrumental (Veena) ; Lakshman Prasad Chaube — Haveli Sangeet.

Dance : Nayana Jhaveri — Manipuri ; Debaprasad Das — Orissi (Guru) ; Yamini Krishnamurti — Bharata Natyam ; C. Sankaran Nair — Krishnattam.

Theatre : Lakshminarain Lal — Play-writing (Hindi) ; Rajinder Nath — Direction ; Krishna Roy — Acting (Bengali) ; V. Ramamurthy — Stage Lighting ; B. Veerabhadra Nayak — Yakshagana.

NEHRU AWARDS

Literacy : 1968 — Dr. (Mrs.) W. H. Fisher ; 1969 — Mrs. Kulsum Sayani ; 1971 — Mrs. Durgabai Deshmukh ; 1972 — Satyen Mitra ; 1974 — T. S. Avinashilingam Chettiar ; 1975 — Dr. Mohansingh Mehta ; 1976 — Dr. T. A. Koshy ; 1977 — A. R. Deshpande ; 1978 — G. K. Gaokar.

International Understanding : 1965 — U. Thant (Burma) ; 1966 — Martin Luther King (U.S.) ; 1967 — Khan Abdul Gaffar Khan (Afghanistan) ; 1968 — Yehudi Menuhin (U.S.) ; 1969 — Mother Teresa (India) ; 1970 — Dr. Kenneth Kaunda (Zambia) ; 1971 — President Josip Broz Tito (Yugoslavia) ; 1972 — Andre Malraux (France) ; 1973 — President Julius K. Nyerere (Tanzania) ; 1974 — Dr. Raul Prebison (Argentina) ; 1975 — Dr. Jonas Salk (U.S.) ; 1976 — Dr. Guiseppe Tucci (Italy) ; 1977—Tulsi Meharji Shreshtha (Nepal); 1978—Nichidatsu Fujii (Japan).

KALINGA PRIZES

The prize named after the ancient Indian empire of that name, was offered as a Gift to the United Nations Education, Scientific & Cultural Organisation (UNESCO) by an Indian Industrialist Mr. Biju Patnaik of Orissa. The prize carries one thousand pounds sterling in cash. It was started in 1952.

1952 :— Prince Louis de Broglie, Professor of Physics, University of Paris (France) ; 1953 :— Dr. Julian Huxley, F.R.C.S. (U.K.) ; 1954 :—Waldemar Kaempffert, Science Editor of the "New York Times" (U.S.) ; 1955 :— Dr. August P. Sunner, Head of Physiology Dept., University of Caracas (Venezuela) ; 1956 :—Prof. George Gamond, University of Colorado (U.S.) ; 1957 :—Bertrand Russel (U.K.) ; 1958 :—Karl Von Frisch, German Scientist (Germany & Austria) ; 1959 :—Jean Rostand, French Scientist (France) ; 1960 :—Ritchi Calder (U.K.) ; 1961 :— Arthur C. Clarke, President, Ceylon Astronomical Association ; 1962 :—Gerard Piel, American Science writer ; 1963 :—Jagjit Singh (India); 1964 :—Dr. R. Warren

Weaver (U.S.) ; 1965 :—Dr. Eugene Robinowitch (France); 1966 :—Paul Coudere, Astronomer & Writer (France); 1967 :—Prof. Fred Hoyle (U.K.) ; 1968 :—Sir Gavin de Beer (U.K.) ; 1970 :— Miss Margaret Mead (U.S.) ; 1971 :— Prof. Pierre Auger (France) ; 1973 :—Dr. Philip Ableson (U.S.) and Nigel Calder (U.K.) ; 1974 : — Dr. Luis Estrada Martinox (Mexico) ; 1976 :—Alexander Oparin (Soviet Union) ; Sir George Porter (U.K.).

JNANPITH AWARDS

1965 :—**Mahakavi Sankara Kurup — "Odakuzhal".**

1966 :—**Tara Shanker Bannerjee — "Ganadevata".**

1967 :—**Dr. K. V. Puttappa— "Ramayana Darahanam"; Uma Shanker Joshi — "Nisheeth".**

1968 :—**Sumitranandan Pant — "Chidambaram".**

1969 :—**Raghupati Sahai Firaq — "Gul-e-Naghma".**

1970 :—**Dr. Vishwanatha Satyanarayana — "Ramayana Kalpavrikshanu".**

1971 :—**Bishnu Dey — "Smriti Satta Bhavishyat".**

1972 :—**Ramdhari Singh Dinkar — "Urvashi".**

1973 :—**Dr. Dattatreya Ramchandra Bendre — "Naku Tanthi"; Gopinath Mahanty — "Mati Matal".**

1974 :—**Vishnu Sakharam Khandekar — "Yayati".**

1975 :—**P. V. Akilandam — "Chittirappavai".**

1976 :—**Mrs. Ashapurna Devi—"Prathama Pratishruti".**

1977 :—**Dr. K. Shivarama Karanth — "Mukajjiya Kanasugalu".**

NATIONAL FILM AWARDS (1977)

Lotus Awards

The National Film Awards Scheme was reconstituted during 1975. "Lotus Awards" have replaced the earlier President's medals. The awards consist of Swaran Kamal (Gold Lotus), Rajat Kamal (Silver Lotus) and the Bronze Lotus. While the first two are for different categories of films, the Bronze Lotus is given to the leading actor and actress of the award winning films.

Best Feature Film : 'Ghatashraddha' (Kannada); Producer : Sadanand Suvarna—Swaran Kamal. Cash Prize of Rs. 40,000. Director : Girish Kasarvalli—Rajat Kamal. Cash Prize of Rs. 20,000.

Best Feature Film with mass appeal and wholesome entertainment : 'Swami' (Hindi). Producer : Smt. Jaya Chakravarthy — Swaran Kamal. Director : Basu Chatterjee — Rajat Kamal.

Best Feature Film on National Integration : Not awarded.

The following feature films in regional languages were awarded the Rajat Kamal and cash prizes of Rs. 10,000 to the Producer and Rs. 5,000 to the Director :—

Hindi : 'Shatranj ke Khilari'. Producer: Suresh Jindal; Director : Satyajit Ray.

Assamese : 'Sandhyarag' ; Producer : Dr. B. N. Saikia ; Director : B. N. Saikia.

Bengali : (No award).

English : (No award).

Gujarati : (No award).

Kannada : 'Tabboliyu Nenado Magane' ; Producers : B. M. Venkatesh & Chandulal Jain ; Directors : B. V. Karanth & Girish Karnad.

Malayalam : 'Kodiyettom'; Producer : K. Bhaskaran Nair ; Director : Adoor Gopalakrishnan.

Marathi : 'Jait Re Jait'; Producer : Mrs. Usha Mangeshkar ; Director : Dr. Jabbar Patel.

Oriya : 'Chilka Turey'; Producer : S. R. Chaudhari ; Director : B. R. Chaudhari.

Punjabi : No award.

Tamil : 'Agraharathil Kazhuthai'; Producer: Charly John ; Director : John Abraham.

Telugu : 'Oka Oorie Katha'; Producer : A. P. Reddy ; Director : Mrinal Sen.

Best Direction : P. Aravindan (*Kanchana Sita* — Malayalam). Rajat Kamal. Cash Prize of Rs. 20,000.

Best Story : Not awarded.

Best Screen Play : Script Writers : Pt. Satyadev Dubey & Shyam Benegal (*Bhumika* — Hindi). Rajat Kamal. Cash Prize of Rs. 10,000.

Best Actor : Gopi (*Kodiyettom* — Malayalam). Rajat Kamal : Cash Prize of Rs. 10,000.

Best Actress : Miss Smita Patil (*Bhumika* — Hindi). Rajat Kamal. Cash Prize of Rs. 10,000.

Best Child Actor : Master Ajit Kumar (*Ghatashraddha* — Kannada). Rajat Kamal. Cash Prize of Rs. 5,000.

Best Cinematography (Colour) : Cameraman : Soumendu Roy (*Shatranj ke Khilari* — Hindi). Rajat Kamal. Cash Prize of Rs. 5,000.

Best Cinematography (Black & White) : Balu Mahendra (*Kokila*—Kannada). Rajat Kamal. Cash Prize of Rs. 5,000.

Best Sound Recording : S. P. Ramanathan (*Godhuli* — Hindi). Rajat Kamal. Cash Prize of Rs. 5,000.

Best Editing : Waman Bhonsle & Guru Dutt (*Inkar* — Hindi). Rajat Kamal. Cash Prize of Rs. 5,000.

Best Music Direction : B. V. Karanth (*Ghatashraddha*— Kannada). Rajat Kamal. Cash Prize of Rs. 10,000.

Best Male Playback Singer : Mohd. Rafi — *Song : Kya Hua Tera Waada* (*Hum Kisi Se Kum Naheen* — Hindi). Rajat Kamal & Cash Prize Rs. 10,000.

Best Female Playback Singer : S. Janaki — *Song : Sendoora Poovey* (*16 Vayathinile* — Tamil). Rajat Kamal. Cash Prize of Rs. 10,000.

Best Children's Film : (*Safed Haathi* — Hindi). Producer : R. A. Jalan and Pratap Agarwal. Swaran Kamal and cash prize of Rs. 15,000. Director : Tapan Sinha. Rajat Kamal. Cash Prize of Rs. 10,000.

Short Film Awards

Best Information Film (Documentary) : Eshratha Rajendra Prasad (Hindi). Producer : Arvind Kumar Sinha. Rajat Kamal. Cash Prize of Rs. 5,000. Director: M. Prabhat. Rajat Kamal. Cash Prize of Rs. 4,000.

Best Educational Instructional Film : Tobacco Habits and Oral Cancer (English). Producer : Messrs. A. V. Films ; Rajat Kamal. Cash Prize of Rs. 5,000. Director : Arun Khopkar. Rajat Kamal. Cash Prize of Rs. 4,000.

Best Promotional Film (Non-Commercial) : Paravati (Hindi). Producer & Director : Santi P. Chowdhury. Rajat Kamal.

Best Experimental Film : Samadhi. Producer T. V. Instt. of India. Pune. Rajat Kamal. Cash Prize of Rs. 5,000. Director : John Sankara Mangalam. Rajat Kamal. Cash Prize of Rs. 4,000.

Best Animation Film : Prakaruthi ka Niyam (Hindi). Producer : G. P. Asthana (Films Divn.). Rajat Kamal. Cash Prize of Rs. 5,000. Animator : B. G. Samant. Rajat Kamal. Cash Prize of Rs. 5,000. Director : S. R. Shendge. Rajat Kamal & Cash prize of Rs. 4,000.

Best Newsreel Cameraman : C. L. Kaul ; Item : *Himalayan Pilgrimage* (Films Divn.). Rajat Kamal & cash prize Rs. 5,000.

Best Indian News Review : INR No. 1520 *Unprecedented Havoc* (Films Divn.) ; Rajat Kamal and cash prize Rs. 5,000.

Phalke award

In 1969, the centenary year of Dada Saheb Phalke, father of the Indian cinema, a special award named after him was created by the Ministry of Information and Broadcasting to be given in recognition of his outstanding service to Indian cinema which consisted of Rs. 20,000, a gold lotus and a shawl.

Devika Rani was the first recipient of the Phalke Award in 1969. The other recipients were : B. N. Sircar, 1970; Prithviraj Kapoor (Posthumous), 1971 ; Pankaj Mullick, 1972; Ruby Myers (Sulochana), 1973 ; B. N. Reddy, 1974 ; Dhiren Ganguli, 1975 ; Kanan Devi, 1976 ; Nitin Bose, 1977.

FILMFARE AWARDS

Best Picture : Do Bigha Zamin (Bimal Roy), 1953 ; Boot Polish (Raj Kapoor), 1954 ; Jagriti (S. Mukerji), 1955 ; Jhanak Jhanak Payal Baaje (V. Shantaram), 1956 ; Mother India (Mehboob), 1957 ; Madhumati (Bimal Roy), 1958 ; Sujata (Bimal Roy), 1959 ; Mughal-e-Azam (K. Asif), 1960 ; Jis Desh Men Ganga Behti Hai (Raj Kapoor), 1961 ; Sahib Bibi Aur Ghulam (Guru Dutt), 1962 ; Bandini (Bimal Roy), 1963 ; Dosti (Tarachand Barjatya), 1964 ; Himalay Ki Godmein (Shankerbhai J. Bhatt), 1965 ; Guide (Dev Anand), 1966 ; Upkar (Vishal Pictures), 1967 ; Brahmachari (G. P. Sippy), 1968 ; Aradhana (Shakti Samanta), 1969: Khilona, 1970; Anand (Hrishikesh Mukherji and N. C. Sippy), 1971 ; Be-imaan (Sohanlal Kanwar), 1972 ; Anuraag (Shakti Samanta), 1973: Rajnigandha (Basu Chatterji), 1974 ; Deewaar (Gulshan Rai), 1975 ; Mausam (Mallikarjun Rao), 1976 ; Bhumika (Lalit M. Bijlani & Freni M. Variava), 1977.

Best Director : Bimal Roy (Do Bigha Zamin), 1953 ; Bimal Roy (Parineeta), 1954 ; Bimal Roy (Biraj Bahu), 1955 ; V. Shantaram (Jhanak Jhanak Payal Baaje), 1956 ; Mehboob (Mother India), 1957 ; Bimal Roy (Madhumati), 1958 ; Bimal Roy (Sujata), 1959 ; Bimal Roy (Parakh), 1960 ; B. R. Chopra (Kanoon), 1961 ; Abrar Alvi (Sahib Bibi Aur Gulam), 1962 ; Bimal Roy (Bandini), 1963 ; Raj Kapoor (Sangam), 1964 ; Yash Chopra (Waqt), 1965 ; Vijay Anand (Guide), 1966 ; Manoj Kumar (Upkar), 1967 ; Ramanand Sagar (Ankhen), 1968 ; Yash Chopra (Ittefaq), 1969 ; Asit Sen (Safar), 1970 ; Raj Kapoor (Mera Naam Joker), 1971 ; Sohanlal Kanwar (Be-imaan), 1972 ; Yash Chopra (Daag), 1973 ; Manoj Kumar (Roti, Kapada aur Makaan), 1974 ; Yash Chopra (Deewaar),- 1975 ; Gulzar (Mausam), 1976 ; Basu Chatterji (Swami), 1977.

Best Actor : Dilip Kumar (Daag), 1953 ; Bharat Bhooshan (Shri Chaitanya Mahaprabhu), 1954 ; Dilip Kumar (Azaad), 1955 ; Dilip Kumar (Devdas), 1956 ; Dilip Kumar (Naya Daur), 1957; Dev Anand (Kala Pani), 1958 ; Raj Kapoor (Anari), 1959 ; Dilip Kumar (Kohinoor), 1960 ; Raj Kapoor (Jis Desh Men Ganga Behti Hai), 1961 ; Ashok Kumar (Rakhi), 1962 ; Sunil Dutt (Mujhe Jeene Do), 1963 ; Dilip Kumar (Leader), 1964 ; Sunil Dutt (Khandaan), 1965 ; Dev Anand (Guide), 1966 ; Dilip Kumar (Ram Aur Shyam), 1967 ; Shammi Kapoor (Brahmachari), 1968 ; Ashok Kumar (Ashirwad), 1969 ; Rajesh Khanna (Sachha Jutha), 1970 ; Rajesh Khanna (Anand), 1971 ; Manoj Kumar (Be-imaan), 1972 ; Rishi Kapoor (Bobby), 1973 ; Rajesh Khanna (Aavishkar), 1974 ; Sanjeev Kumar (Aandhi), 1975 ; Sanjeev Kumar (Arjun Pandit), 1976 ; Amitabh Bachchan (Amar Akbar Anthony), 1977.

Best Actress : Meena Kumari (Baiju Bawra), 1953 ; Meena Kumari (Parineeta), 1954 ; Kamini Kaushal (Biraj Bahu), 1955 ; Nutan (Seema), 1956 ; Nargis (Mother India), 1957 ; Vyjayanthimala (Sadhna), 1958 ; Nutan (Sujata), 1959 ; Bina Rai (Ghunghat), 1960 ; Vyjayanthimala (Gunga-Jumna), 1961 ; Meena Kumari (Sahib Bibi Aur Ghulam), 1962 ; Nutan, (Bandini), 1963 ; Vyjayanthimala (Sangam), 1964 ; Meena Kumari (Kaajal), 1965 ; Waheeda Rehman (Guide), 1966 ; Nutan (Milan), 1967 ; Waheeda Rehman (Neel Kamal), 1968 ; Sharmila Tagore (Aradhana), 1969 ; Mumtaz (Khilona), 1970 ; Asha Parekh (Kati Patang), 1971 ; Hema Malini (Seeta Aur Geeta), 1972 ; Dimple Kapadia (Bobby) & Jaya Bhaduri (Abhimaan), 1973 ; Jaya Bhaduri (Kora Kagaz), 1974 ; Lakshmi (Julie), 1975 ; Raakhee (Tapasya), 1976 ; Shabana Azmi (Swami), 1977.

Best Supporting Actor : David (Boot Polish), 1954 ; Abhi Bhattacharya (Jagriti), 1955 ; Motilal (Devdas), 1956 ; Raj Mehra (Sharada), 1957 ; Johnny Walker (Madhumati), 1958 ; Man Mohan Krishna (Dhool Ka Phool), 1959 ; Motilal (Parakh), 1960 ; Nana Palsikar (Kanoon), 1961 ; Mehmood (Dil Tera Deewana), 1962 ; Raj Kumar (Dil Ek Mandir), 1963 ; Nana Palsikar (Shehar Aur Sapna), 1964 ; Raaj Kumar (Waqt), 1965 ; Ashok Kumar (Afsana), 1966 ; Pran (Upkar), 1967 ; Sanjeev Kumar (Shikar), 1968 ; Pran (Ansoo Ban Gaye Phool), 1969 ; Feroz Khan (Aadmi Aur Insaan), 1970 ; Amitabh Bachchan (Anand), 1971 ; Pran (Be-imaan), 1972 ; Amitabh Bachchan (Namak Haram), 1973 ; Vinod Khanna (Haath ki Safai), 1974 ; Shashi Kapoor (Deewaar), 1975 ; Prem Chopra (Do Anjane), 1976 ; Shreeram Lagoo (Gharaonda), 1977.

Best Supporting Actress : Usha Kiron (Baadbaan), 1954 ; Nirupa Roy (Munimji), 1955 ; Vyjayanthimala (Devdas), 1956 ; Shyama (Sharada), 1957 ; Nalini Jaywant (Kala Pani), 1958 ; Lalita Pawar (Anari), 1959 ; Nanda (Aanchal), 1960 ; Nirupa Roy (Chhaya), 1961 ; Shashikala (Aarti), 1962 ; Shashikala (Gumrah), 1963 ; Nirupa Roy (Shehnai), 1964 ; Padmini (Kaajal), 1965 ; Simi (Do Badan), 1966 ; Jamuna (Milan), 1967 ; Simi (Saathi), 1968 ; Tanuja (Paisa Ya Pyar), 1969 ; Chand Usmani (Pehchan), 1970 ; Farida Jalal (Paras), 1971 ; Zeenat Aman (Hare Rama Hare Krishna), 1972 ; Raakhee (Daag), 1973 ; Durga Khote (Bidaai), 1974 ; Nadira (Julie), 1975; Kajri (Balika Badhu), 1976 ; Asha Sachdev (Priyatama), 1977.

Best Comedian : Mehmood, (Pyar Kiye Jaa), 1966 ; Om Prakash (Dus Lakh), 1967 ; Johnny Walker (Shikar), 1968 ; Mehmood (Waris), 1969 ; I. S. Johar (Johnny Mera Naam), 1970 ; Not awarded, 1971 ; Not awarded, 1972 ; Asrani (Aaj ki Taaza Khabar), 1973 ; Mehmood (Vardaan), 1974 ; Deven Varma (Chori Mera Kaam), 1975 ; Asrani (Balika Badhu), 1976.

Best Story Writer : Pt. Mukhram Sharma, (Aulad), 1954 ; Pt. Mukhram Sharma (Vachan), 1955 ; Amiya Chakrabarty (Seema), 1956 ; Akhtar Mirza (Naya Daur), 1957 ; Pt. Mukhram Sharma (Sadhna), 1958 ; Subodh Ghosh (Sujata), 1959 ; Ruby Sen (Masoom), 1960 ; Shridhar (Nazrana), 1961 ; K. P. Kottarakkara (Rakhi), 1962 ; Jarasandha (Bandini), 1963 ; Ban Bhatt (Dosti), 1964 ; Akhtar Mirza (Waqt), 1965 ; R. K. Narayan (Guide), 1966 ; Manoj Kumar (Upkar), 1967 ; Sachin Bhaumick (Brahmachari), 1968 ; V. S. Kanetkar (Ansoo Ban Gaye Phool), 1969 ; Chandrakant Kakodkar (Do Raaste), 1970 ; Hrishikesh Mukerji (Anand), 1971 ; Basu Bhattacharya (Anubhav), 1972 ; Salim Javed (Zanjeer), 1973 ; Kaifi Azmi and Ismat Chugtai (Garam Hawa), 1974 ; Salim Javed (Deewaar), 1975 ; Dr. Balaichand Mukherjee (Arjun Pandit), 1976 ; Sarat Chandra (Swami), 1977.

Best Music Director : Naushad (Baiju Bawra), 1953 ; S. D. Burman (Taxi Driver), 1954 ; Hemant Kumar (Nagin), 1955 ; Shanker-Jaikishen (Chori Chori), 1956 ;

O. P. Nayyar (Naya Daur), 1957 ; Salil Choudhury (Madhumati), 1958 ; Shanker-Jaikishen (Anari), 1959 ; Shanker-Jaikishen (Dil Apna Aur Preet Parai), 1960 ; Ravi (Gharana), 1961 ; Shanker-Jaikishen (Professor), 1962 ; Roshan (Taj Mahal), 1963 ; Laxmikant-Pyarelal (Dosti), 1964 ; Ravi (Khandaan), 1965 ; Shanker-Jaikishen (Suraj), 1966 ; Laxmikant-Pyarelal (Milan), 1967 ; Shanker-Jaikishen (Brahmachari), 1968 ; Laxmikant-Pyarelal (Jeene Ki Raah), 1969 ; Shanker-Jaikishen (Pechan), 1970 ; Shanker-Jaikishen (Mera Nam Joker), 1971 ; Shanker-Jaikishen (Be-imaan), 1972 ; S. D. Burman (Abhimaan), 1973 ; Kalyanji Anandji (Kora Kagaz), 1974 ; Rajesh Roshan (Julie), 1975 ; Khayyam (Kabhi Kabhie), 1976 ; Laxmikant Pyarelal (Amar Akbar Anthony), 1977.

Best Photographer (Black & White) : Tara Dutt (Boot Polish), 1954 ; Dwarka Divecha (Yasmin), 1955 ; Radhu Karmarkar (Shree 420), 1956 ; Faredoon Irani (Mother India), 1957 ; Dilip Gupta (Madhumati), 1958 ; V. K. Murthy (Kaagaz Ke Phool), 1959 ; R. D. Mathur (Mughal-e-Azam), 1960 ; V. Babasaheb (Ganga-Jumna), 1961 ; V. K. Murthy (Sahib Bibi Aur Ghulam), 1962 ; Kamal Bose, (Bandini), 1963 ; K. H. Kapadia (Woh Kaun Thi), 1964 ; Ramchandra (Yaadein), 1965 ; Jaywant Pathare (Anupama), 1966 ; Jal Mistry (Baharon Ke Sapne), 1967 ; Nariman A. Irani (Saraswatichandra), 1968 ; Kamal Bose (Anokhi Raat), 1969 ; Kamal Bose (Khamoshi), 1970 ; Kamal Bose (Dastak), 1971. Not Awarded since 1972.

Best Photographer (Colour) : Krishnarao Vashirde (Sehra), 1963 ; Krishnarao Vashirde (Geet Gaya Pattharon Ne), 1964 ; Dharam Chopra (Waqt), 1965 ; Fali Mistry (Guide), 1966 ; M. N. Malhotra (Hamraaz), 1967 ; G. Singh (Ankhen), 1968 ; Faredoon Irani (Duniya), 1969 ; Jal Mistry (Heer Ranjha), 1970 ; Radhu Karmakar, (Mera Naam Joker), 1971 ; P. Vaikunth (Seeta Aur Geeta), 1972 ; Jal Mistry (Jeelke Us Paar), 1973 ; A. Vincent (Premnagar), 1974 ; Kamal Bose (Dharmatma), 1975 ; Fali D. Mistry (Fakira), 1976 ; Munir Khan (Hum Kisise Kum Nahin), 1977.

Best Sound Recordist : Ishan Ghosh (Jeevan Jyoti), 1954 ; R. Kaushik (Azaad), 1955 ; A. K. Parmar (Jhanak Jhanak Payal Baaje), 1956 ; R. Kaushik (Mother India), 1957 ; Ishan Ghosh (Chandan), 1958 ; A. K. Parmar (Navrang), 1959 ; George D'Cruz (Parakh), 1960 ; Kuldeep Singh (Junglee), 1961 ; S. Y. Pathak (Bees Saal Baad), 1962 ; Dinshaw Billimoria (Bandini), 1963 ; Allauddin (Sangam), 1964 ; Essa M. Suratwala (Yaadein), 1965 ; Manohar Amberkar (Mera Saaya), 1966 ; J. M. Barot (Jewel Thief), 1967 ; P. Thakkersey (Shikar), 1968 ; M. A. Shaikh (Ittefaq), 1969 ; S. C. Bhambri (Talash), 1970 ; Allauddin (Mera Naam Joker), 1971 ; Jehangir Nowroji (Amar Prem), 1972 ; Allauddin (Bobby), 1973 ; L. H. Bhatia (Amir Garib), 1974 ; M. A. Shaikh (Deewaar), 1975 ; P. Harikishan (Bairaag), 1976 ; Dinshaw Billimoria (Agent Vinod), 1977.

Best Art Director (Black & White) : Rusi Banker (Mirza Ghalib), 1955 ; Kanu Desai (Jhanak Jhanak Payal Baaje), 1956 ; M. R. Acharekar (Pardesi), 1957 ; Sudhendu Roy (Madhumati), 1958 ; M. R. Acharekar (Kaagaz Ke Phool), 1959 ; Biren Naag (Chaudhvin Ka Chand), 1960 ; M. R. Acharekar (Jis Desh Men Ganga Behti Hai), 1961 ; D. R. Jadhav and Ram Yedekar (Son of India), 1962 ; Sudhendu Roy (Mere Mehboob), 1963 ; G. L. Jadhav & T. K. Desai (Kohraa), 1964 ; M. S. Sathyu (Haqeeqat), 1965 ; Sant Singh (Yeh Raat Phir Na Aayegi), 1966 ; H. V. Maharudra (Taqdeer), 1967 ; Ajit Banerjee (Mahjli Didi), 1968 ; Ajit Banerjee (Anokhi Raat), 1969 ; Not awarded since 1970.

Best Art Director (Colour) : Sant Singh (Jahan Ara), 1964 ; S. S. Samel (Gumnaam), 1965 ; Shanti Das (Phool Aur Patthar), 1966 ; Abdul Rahim (Chandan Ka Palna), 1967 ; A. A. Majid (Noor Jehan), 1968 ; A. R. Kakkad & Baburao T. Poddar (Tamanna), 1969 ; Shanti Das (Talash), 1970 ; Bansi Chandragupta (Seema), 1971 ; N. B. Kulkarni (Pakeezah), 1972 ; A. Rangaraj (Bobby), 1973 ; Sudhendu Roy (Sagina), 1974 ; Bansi Chandragupta (Do Jhoot), 1975 ; S. S. Samel (Fakira), 1976 ; Shanti Das (Hum Kisise Kum Nahin), 1977.

Best Editor : Hrishikesh Mukherjee (Naukri), 1955 ; G. G. Mayekar (Shree 420), 1956 ; Shivaji Awdhut, (Sharda), 1957 ; Hrishikesh Mukherjee (Madhumati), 1958 ; Chintaman Borkar (Navrang), 1959 ; Moosa Mansoor (Kohinoor), 1960 ; G. G. Mayekar (Jis Desh Men Ganga Behti Hai), 1961 ; Keshav Nanda (Bees Saal Baad), 1962 ; Pran Mehra (Gumrah), 1963 ; Raj Kapoor (Sangam), 1964 ; Pratap Dave, (Himalay Ki Godmein), 1965 ; Vasant Borkar (Phool Aur Patthar), 1966 ; B. S. Glaad (Upkar), 1967 ; N. M. Shankar (Saathi), 1968, Balbir S. Glaad (Nanna Farishta), 1969 ; Vijay Anand (Johnny Mera Naam), 1970 ; Not awarded, 1971 ; Manoj Kumar (Shor), 1972 ; R. D. Mahadik (Zanjeer), 1973 ; Kamalakar Karkhanis (Roti), 1974 ; M. S. Shinde (Sholay), 1975 ; Bijoy Chowdhury (Balika Badhu), 1976 ; Kamalakar Karkhanis (Amar Akbar Anthony), 1977.

Best Lyricist : Shailendra (Yahudi), 1958 ; Shailendra (Anari), 1959 ; Shakeel Badayuni (Chaudhvin Ka Chand), 1960 ; Shakeel Badayuni (Gharana), 1961 ; Shakeel Badayuni (Bees Saal Baad), 1962 ; Sahir Ludhianvi (Taj Mahal), 1963 ; Majrooh Sultanpuri (Dosti), 1964 ; Rajendra Krishna (Khandaan), 1965 ; Hazrat Jaipuri, (Suraj), 1966 ; Gulshan Bawra (Upkar), 1967 ; Shailendra (Brahmachari), 1968 ; Neeraj (Chanda Aur Bijli), 1969 ; Verma Malik (Pehchan), 1970 ; Hazrat Jaipuri (Andaz), 1971 ; Verma Malik (Be-imaan), 1972 ; Gulshan Bawra (Zanjeer), 1973 ; Santosh Anand (Roti, Kapada aur Makaan), 1974 ; Indivar (Amanush), 1975 ; Sahir Ludhianvi (Kabhi Kabhie), 1976 ; Gulzar (Gharaonda), 1977.

Best Playback Singer* : Lata Mangeshkar (Madhumati), 1958 ; Mukesh (Anari), 1959 ; Mohammed Rafi (Chaudhvin Ka Chand), 1960 ; Mohammed Rafi (Sasural), 1961 ; Lata Mangeshkar (Bees Saal Baad), 1962 ; Mahendra Kapoor (Gumrah), 1963 ; Mohammed Rafi (Dosti), 1964 ; Lata Mangeshkar, (Khandaan) 1965 ; Mohammed Rafi (Suraj), 1966 ; Mahendra Kapoor (Hamraaz), Asha Bhosle, (Dus Lakh) ; 1967 ; Mohammed Rafi, (Brahmachari), Asha Bhosle (Shikar), 1968 ; Kishore Kumar (Aradhana), Lata Mangeshkar (Jeene Ki Raah), 1969 ; Mukesh (Pehchan), Sharda (Jahan Pyar Miley), 1970 ; Manna Dey (Mera Naam Joker), Asha Bhosle (Caravan), 1971 ; Mukesh (Be-imaan), Asha Bhosle (Hare Rama Hare Krishna), 1972 ; Harendra Chanchal (Bobby), Asha Bhosle (Naina), 1973 ; Mahendra Kapoor (Roti, Kapada aur Makan) ; Asha Bhosle (Pran Jaye Par Vachan Na Jaye), 1974 ; Kishore Kumar (Amanush) & Sulakshana Pandit (Sankalp), 1975 ; Mukesh (Kabhi-Kabhie) & Hemlata (Chitchor), 1976 ; Mohammad Rafi (Hum Kisise Kum Nahin) ; Preeti Sagar (Manthan), 1977.

Best Dialogue Writer : Rajinder Singh Bedi (Madhumati), 1958 ; Ramanand Sagar (Paigham), 1959 ; Aman, Kamal Amrohi, Wajahat Mirza, Ehsan Rizvi (Mughal-e-Azam), 1960 ; Wajahat Mirza (Ganga-Jumna), 1961 ; Akhtar-ul-Iman (Dharmputra), 1962 ; Arjun Dev Rashk (Dil Ek Mandir), 1963 ; Govind Moonis (Dosti), 1964 ; Akhtar-ul-Iman (Waqt), 1965 ; Vijay Anand (Guide), 1966 ; Manoj Kumar (Upkar), 1967 ; Ali Raza (Saraswatichandra), 1968 ; Pandit Anand Kumar (Anokhi

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* Separate awards for male and female categories since 1967.

Raat), 1969 ; Rajinder Singh Bedi (Satyakam), 1970 ; Gulzar (Anand), 1971 ; Ramesh Pant (Amar Prem), 1972; Gulzar (Namak Haraam), 1973 ; Kaifi Azmi (Garam Hawa), 1974 ; Salim Javed (Deewaar), 1975 ; Sagar Sarhadi (Kabhi Kabhie), 1976 ; Vrajendra Gaur (Dulhan Wohi Jo Piya Man Bhaye), 1977.

Best Screen Play Writer : Nabendu Ghosh (Majhli Didi), 1968; Hrishikesh Mukerjee (Anokhi Raat), 1969 ; Vijay Anand (Johny Mera Naam), 1970 ; Basu Chatterji (Sara Akash), 1971 ; Arvind Mukherjee (Amar Prem), 1972; Javed (Zanjeer), 1973 ; Kaifi Azmi and Shama Zaidi (Garam Hawa), 1974 ; Salim Javed (Deewaar), 1975 ; Basu Chatterji (Chhotisi Baat), 1976 ; Lekh Tandon, Vrajendra Gaur & Madhusudan Kalekar (Dulhan Wohi Jo Piya Man Bhaye), 1977.

Special Awards : Jaya Bhaduri (Uphaar) and Prithviraj Kapoor (for outstanding contribution to the stage and screen), 1971 ; V. Shantaram (for outstanding contribution to film industry), 1972 ; Special Citation for " Anubhav ", 1972 ; Amitabh Bachchan (for outstanding performance in Namak Haram) ; Raakhee (for outstanding performance in Daag) and Rajesh Khanna (for his role in Anuraag), 1973 ; " Ankur " (Producers : Mohan J. Bijlani and Freni Variava), 1974 ; Farida Jalal (for her role in Majboor) and Priti Sagar (singer in Julie), 1975 ; Yesudas (Playback singer in Chitchor), 1976 ; Bhimsain (Gharaonda) ; Amol Palekar (Bhumika) ; Naseeruddin Shah (Manthan), 1977.

Best Documentary Film: Handicrafts of Rajasthan (Clement Baptista), 1966; India, 1967 (S. Sukhdev), 1967 ; Explorer (Pramod Patti), 1968 ; Then, the Rains (Ramesh Gupta), 1969 ; Koodal (Tyeb Mehta), 1970 ; Creations in Metal (Homi D. Sethna), 1971 ; Nine Months To Freedom (S. Suckhdev), 1972 ; A Day With The Builders (C. J. Paulose), 1973 ; The Nomad Puppeteer (Mani Kaul), 1974 ; Sarojini Naidu (B. D. Garga), 1975 ; Marvel of Memory (Dir. N. K. Issar), 1976 ; Transformations (Zafar Hai), 1977.

Regional Film Awards :

Best Marathi Film: Maza Hoshil Ka (L. B. Thakur), 1963 ; Sant Nivratti Gyandeo (Vinayak Sarasvate and Bal Chavan), 1964 ; Lakshmi Aali Ghara (Madhav Shinde), 1965 ; Gurukilli (Raja Paranjape), 1966 ; Pawankanthcha Dhondi (Vinayak Thakur), 1967 ; Ekti (G. Chaugule), 1968 ; Jiwhala (Atma Ram), 1969 ; Apradh (Sharad Pilgaonkar), 1970 ; Shantata ! Court Chaloo Ahe (Satyadev Dubey and Govind Ninalani), 1971 ; Kunku Mazhe Bhagyache (Shamrao Mane), 1972 ; Andhala Marto Dola, 1973 ; Sugandhi Katta, 1974; *Best Picture :* Samna, (Ramdas Phutane), 1975 ; Aram Haram Ahe, (Kamalakar Torney), 1976 ; Nav Mothe Lakshan Khote, 1977 ; *Director :* Dr. Jabbar Patel (Samna), 1975 ; Vasant Joglekar (Ha Khel Savalyancha), 1976 ; Muralidhar Kapdi (Nav Mothe Lakshan Khote), 1977 ; *Actor :* Dr. Sriram Lagu (Samna), 1975 ; Ravindra Mahajani (Zunj), 1976 ; Dr. Sriram Lagu (Bhingree), 1977 ; *Actress :* Sandhya (Chandanachi Choli Ang Ang. Jali), 1975 ; Asha Kale (Ha Khel Savalyancha), 1976 ; Usha Chawan (Nav Mothe Lakshan Khote), 1977 ; *Special Award :* Ashok Saraf (Ram Ram Gangaram), 1977.

Tamil

Best Picture : Bharatha Vilas, 1973 ; Dekkatra Parvathi, 1974 ; Apoorva Ragangal (Kalakendra Movies), 1975 ; Annakkili, 1976 ; Bhuvana Oru Kelvikuri, 1977 ; *Best Director :* A C. Trilokchander (Bharathavilas), 1973 ; K. Balashander (Aval Oru Thodar Kathai), 1974 ; K. Balachander (Apoorva Ragangal), 1975 ; S. P. Muthuraman (Oru Othappu kan Simittoo Giradhu), 1976 ; S. P. Muthuraman (Bhuvana Oru Kelvikuri), 1977 ; *Best Actor :* Sivaji Ganesan (Gowravam), 1973 ; Gemini Ganesh (Nan Avanillai), 1974 ; Kamalahasan (Apoorva Ragangal), 1975 ; Kamalahasan (Oru Othappu), 1976 ; Kamalahasan (16 Vayadhinile), 1977 ; *Best Actress :* Jayalalitha (Suryakanthi), 1973 ; Lakshmi (Dikkatra Parvathi), 1974 ; Sujata (Uravu Solla Oruvan), 1975 ; Sujatha (Annakkili), 1976; Sujatha (Avargal), 1977 ; *Special Award for Excellent Production Values :* Ulagam Sutrum, 1974 ; *Special Commendation Award for Performance :* K. R. Vijaya in Deerga Sumangali, 1974 ; Srividya (Apoorva Raegangal), 1975 ; Sridevi (16 Vayadhirile), 1977.

Telugu

Best Picture : Jeevanatarangalu, 1973 ; O' Seetha Kata, 1974 ; Jeevana Jyoti (D.V.S. Raju), 1975 ; Soggaadu, 1976 ; Adavi Ramudu, 1977 ; *Best Director :* T. Rama Rao (Jeevanatarangalu), 1973 ; K. Vishwanath (O' Seetha Kata), 1974 ; K. Vishwanath (Jeevana Jyoti), 1975 ; Bapu (Seetha Kalyanam), 1976 ; Raghavendra Rao (Prema Lekhalu), 1977 ; *Best Actor :* A. Nageswara Rao (Marupurani Manishi), 1973 ; Sobhan Babu (Kaidi Babai), 1974 ; Sobhan Babu (Jeevana Jyoti), 1975 ; Sobhan Babu (Soggaadu), 1976 ; Krishna Raju (Amara Deepam), 1977 ; *Best Actress :* Vanisri (Jeevanatarangalu), 1973 ; Vanisri (Krishnaveni), 1974 ; Vanisri (Jeevana Jyoti), 1975 ; Jaya Sudha (Jyothi), 1976 ; Jaya Sudha (Ame Katha), 1977 ; *Special Awards :* Jayaprada and Gummidi, 1976.

Malayalam

Best Picture : Panitheeratha Veedu, 1973 ; Nellu, 1974 ; Raagam (N. P. Ali), 1975 ; Mohini Attam, 1976 ; Itha Ivvade Varu, 1977 ; *Best Director :* K. S. Sethumadhavan (Panitheeratha Vedu), 1973 ; K. S. Sethumadhavan (Chattakkari), 1974 ; Bharatan (Prayanam), 1975 ; P. Sukumaran Thampi (Mohini Attam), 1976 ; I. V. Sasi (Itha Ivvade Varu), 1977 ; *Best Actor :* P. J. Anthony (Nirmalyam), 1973 ; Kamala Hasan (Kanya Kumari), 1974 ; Adoor Bhasi (Raagam), 1975 ; Madhu (Theekkanal), 1976 ; Madhu (Yuddha Kandam), 1977 ; *Best Actress :* Nandita Bose (Swapnam), 1973 ; Lakshmi (Chattakkari), 1974 ; Lakshmi (Chalanam), 1975 ; Lakshmi (Mohini Attam), 1976 ; Sheela (Lakshmi), 1977 ; *Special Award :* Prem Nazir, 1976 ; *Commendation :* K. G. George, 1976.

Kannada

Best Picture : Nagarahavu, 1973 ; Kadu, 1974 ; Chomana Dudi (Ashok Kumar Katapadia), 1975 ; Tulasi, 1976 ; Tabbaliya Neenade Magane, 1977 ; *Best Director :* S. R. Puttanna (Edakallu Guddada Mele), 1973 ; Girish Karnad (Kadu), 1974 ; B. V. Karanth (Chomana Dudi), 1975 ; E. V. Iyer (Hamsa Geetho), 1976 ; K. S. Prakash Rao (Ganda Hendathi), 1977 ; *Best Actor :* Raj Kumar (Gandhada Gudi), 1973 ; Lokesh (Boothyyana Maga Ayyu), 1974 ; Raj Kumar (Mayura), 1975 ; Srinath (Besugo), 1976 ; Manu (Tabbaliyu Neenade Magane), 1977 ; *Best Actress :* Jayanthi (Edkallu Guddada Mele), 1973 ; Aarti (Upasane), 1974 ; Aarti (Shubhamangala), 1975 ; Jayanthi (Tulasi), 1976 ; Manjula (Deepe), 1977 ; *Special Award for Excellent Performance :* Vishnu Vardhan (Nagarhavu), 1973.

Bengali

Best Picture : Mahanagar (R. D. Bansal), 1963 ; Charulata (R. D. Bansal), 1964 ; Atithi (S. N. Sircar), 1965 ; Balika Bodhu (Sunila Devi), 1966 ; Haatey Bazarey (Ashim Dutta), 1967 ; Apanjan (R. N. Malhotra), 1968 ; Kamal Lata (Niren Sil), 1969 ; Pratidvandi (Nepal Dutta and Ashim Dutta), 1970 ; Nimantran (Bharat Shumsher Jung Bahadur Rana), 1971 ; Mem Saheb (Ashima Bhattacharjee), 1972 ; Strir Patra, 1973 ; Amanush, 1974 ; Sansar Simante (Produced by Subir Ghosh), 1975 ; Jana Aranya (Subir Guha), 1976 ; E. K. Je Chhilo Desh, 1977 ; *Best Director :* Pijush Bose (Bikaley Bhorer Phool), 1974 ; Satyajit Ray (Sonar Kella), 1975 ; Satyajit Ray (Jana Aranya), 1976 ; Ritwick Ghatak (Jukti Takko Aar Guppo), 1977 ; *Best Actor :* Uttam Kumar (Amanush), 1974 ; Soumitra Chatterjee (Sansar Simante), 1975 ; Pradeep Mukherjee (Jana Aranya), 1976 ; Soumitra Chatterji (Babu Moshai), 1977 ; *Best Actress :* Aparna Sen (Sujata), 1974 ; Suchitra Sen (Priya Bandhabi), 1975 ; Aparna Sen (Asamaya), 1976 ; Supriya Devi (Sister), 1977.

Critics Award : Uski Roti (Mani Kaul), 1970 ; Ashad Ka Ek Din (Mani Kaul), 1971 ; Maya Darpan (Kumar Shahani), 1972 ; Duvidha (Mani Kaul), 1973 ; Rajnigandha (Babu Chatterji), 1974 ; Aandhi (Gulzar), 1975 ; Mrigaya (by Mrinal Sen), 1976 ; Satyajit Ray (Shatranj ke Khilari), 1977.

NOBEL PRIZE AWARDS

Physics : W. C. Roentgan (G) (1901) ; H. A. Lorentz (D), P. Zeeman (D) (1902) ; H. Bequerel (F), P. Curie (F), Marie Curie (F) (1903) ; Lord J. W. S. Rayleigh (B) (1904) ; P. Lenard (G) (1905) ; J. J. Thomson (B) (1906) ; A. A. Michelson (A) (1907) ; G. Lippmann (I) (1908) ; F. Braun (G), G. Marconi (I) (1909); J. D. Van der Waals (D) (1910) ; W. Wien (G) (1911) ; G. Dalen (S) (1912) ; H. Kamerlingh Onnes (D) (1913) ; M. V. Laue (G) (1914) ; W. H. Bragg (B), W. L. Bragg (B) (1915) ; — (1916) ; C. G. Barkia (B) (1917): M. Planck (G) (1918) ; J. Stark (G) (1919) ; C. E. Guillaume (F) (1920) ; A. Einstein (G) (1921) ; N. Bohr (Da) (1922) ; R. A. Millikan (A) (1923) ; M. Seegbahn (S) (1924) ; J. Franck (G), G. Hertz (G) (1925) ; J. Perrin (J) (1926) ; A. H. Compton (A), C. T. R. Wilson (B) (1927) ; O. W. Richardson (B) (1928) ; L. de Broglie (F) (1929) ; C. V. Raman (In.) (1930) ; — (1931) ; W. Heisenberg (G) (1932 ; P. A. M. Dirac (B), E. Schroedinger (Au) (1933) ; — (1934) ; J. Chadwick (B) (1935) ; V. F. Hess (Au), C. D. Anderson (A) (1936) ; C. J. Davisson (A), G. P. Thomson (B) (1937) ; E. Fermi (I) (1938) ; E. O. Lawrence (A) (1939) ; 1940 to 1942 (no awards) ; O. Stern (A) (1943) ; I. I. Rabi (A) (1944) ; W. Pauli (Au) (1945) ; P. W. Bridgman (A) (1946) ; Sir Edward Appleton (B) (1947) ; P. M. S. Blackett (B) (1948) ; H. Yukawa (J) (1949) ; Cecil F. Powell (B) (1950) ; Sir J. Cockcroft (B), E. T. S. Walton (In) (1951) ; E. Purcell (A), P. Bloch (A) (1952) ; F. Zernike (D) (1953) ; M. Born (B), W. Bothe (G) (1954) ; W. E. Lamb (A), P. Knsch (A) (1955) ; W. Shockley (A), J. Bardeen (A), W. H. Brattain (A) (1956) ; T. Dao-ee (Chi), C. Ning Yang (Chi) (1957); P. A. Corenkov (R), I. M. Frank (R), I. Tamm (R) (1958) ; E. Segre (A), O. Chamberlain (A) (1959) ; D. A. Glasser (A) (1960) ; R. Hofstadtar (A), R. Mossbauer (G) (1961) ; L. Davidovich Landau (R) (1962) ; Engene P. Wigner, Maria Geoppoert Mayer, Hans D. Jensen (1963) ; Charles Towns, Nikolai Basov, Alexander Prochorov (1964) ; Julian Schwingar, Richard Feynman, Shinichero Tomonaga (1965) ; Alfred Kastler (1966) ; Hans Albert Bethe (A) (1967) ; Louis W. Alvarez (A) (1968) ; Prof. Murray Gell-Mann (A) (1969) ; Prof. Manlouis Neel (F), Prof. Hannes Alfven (Sw) (1970) ; Dr. Dennis Gabor (B) (1971) ; Prof. John Bardeen (A), Prof. John Schrieffer (A), Prof. Leon Cooper (A) (1972) ; Dr. Leo Esaki (A), Dr. Ivar Gisevar (A), Dr. Brian D. Josephson (E) (1973) ; Prof. Martin Ryle (B), Prof. Antony Hewish (B) (1974) ; Prof. James Rainwater (A), Prof. Aage Bohr (Da), Prof. Ben Mottelson (Da) (1975) ; Prof. Gurton Richer (A), Prof. Samuel C. C. Ting (A) (1976) ; Philipp W. Anderson (A), Sir Novell F. Mott (B), John H. Van Vleck (A) (1977).

Chemistry : J. H. Van't Hoff (D) (1901) ; E. Fischer (G) (1902) ; S. Arhenius (S) (1903) ; W. Ramsay (B) (1904) ; A. V. Baeyer (G) (1905) ; H. Moissan (F) (1906); E. Buchner (G) (1907) ; E. Rutherford (B) (1908) ; V. Ostwald (G) (1909) ; O. Wallach (G) (1910) ; Marie Curie (F) (1911) ; V. Grignard (F), P. Sabatier (F) (1912) ; A. Werner (Sw) (1913) ; T. W. Richards (A) (1914) ; R. Willstaetter (G) (1915) ; — (1916) ; — (1917) ; F. Haber (G) (1918) ; — (1919) ; W. Nernst (G) (1920) ; F. Soddy (B) (1921) ; F. W. Aston (B) (1922) ; F. Pregi (Au) (1923) ; — (1924) ; R. Zsigmondy (G) (1925) ; T. Svedberg (S) (1926) ; H. Wieland (G) (1927) ; A. Windaus (1928) ; H. V. Euler-Chelpin (S), A. Harden (B) (1929) ; H. Fischer (G) (1930) ; P. Bergins (G), K. Bosch (G) (1931) ; I. Langmuir (A) (1932) ; — (1933) ; H. C. Urey (A) (1934) ; F. Joliot-Curie (I), I. Joliot Curie (I) (1935) ; P. Debye (D) (1936) ; W. N. Haworth (B), P. Karrer (Sw) (1937) ; R. Kuhn (G) (1938) ; A. P. Butenandt (G), L. Ruzicka (Sw) (1939) ; 1940 to 1942 (no awards), G. Hevsey (H) (1943) ; O. Hahn (G) (1944) ; A. Virtanen (Fi) (1945) ; J. B. Sumner (A), J. H. Northrop (A), W. M. Stanley (A) (1946) ; Sir Robert Robinson (B) (1947) ; A. Tiselius (S) (1948) ; W. F. Giauque (A) (1949) ; Otto Diels (G), K. Alder (G) (1950) ; E. M. MacMillan (A), G. T. Seaborg (A) (1951) ; A. J. P. Martin (B), R. L. M. Synge (B) (1952) ; H. Staudinger (G) (1953) ; L. Pauling (A) (1954) ; Vincent du Vigneaud (A) (1955) ; Sir Cyril Hinshelwood (B), N. Semonov (R) (1956) ; Sir Alexander Todd (B) (1957) ; F. Sanger (B) (1958) ; J. Heyrovsky (Cz) (1959) ; W. F. Libby (A) (1960) ; M. Calvin (1961) ; M. F. Perutz (B), J. C. Kendreu (B) (1962) ; Prof. Karl Ziogler, Guilio Natta (I) (1963) ; Dorothy Crow Hodgkin (1964) ; Robert Burns Woodward (1965) ; Robert S. Mulliken (1966) ; Manfred Eigen (G), Ronald G. W. Norrish (B), George Porter (B) (1967) ; Lars Onsager (A) (1968) ; D. H. Barton (B), O. Hassal (N) (1969) ; Prof. Luis Leloir (Ar) (1970) ; Dr. Gerhard Herzberg (C) (1971) ; Dr. Christian B. Anfinsen (A), Dr. Stanford Moore (A), Dr. William H. Stein (A) (1972) ; Dr. Fischer (G), Dr. Wilkinson (B) (1973) ; Prof. Paul J. Flory (A) (1974) ; Prof. John Warcup Cornforth (Br.), Prof. Vladimir Prelog (Sw.) (1975) ; Prof. William Lipscomb (A) (1976) ; Prof. Ilya Prigogine (Be) (1977); Prof. Piotr Kapitsa (R), Dr. Arno A. Penzeas (A), Dr. Robert W. Wilson (A) (1978).

Physiology & Medicine : E. V. Behring (G) (1901) ; R. Ross (B) (1902); N. R. Finsen (Da) (1903) ; I. P. Pavlov (R) (1904) ; R. Koch (G) (1905) ; C. Golgi (I), S. R. Y. Cajal (Sp) (1906) ; C. L. A. Laveran (F) (1907) ; P. Ehrlich (G), E. Metchnikoff (R) (1908) ; T. Kocher (Sw) (1909) ; A. Kossel (G) (1910) ; A. Gullstrand (S) (1911) ; A. Carrel (A) (1912) ; C. Richet (F) (1913) ; R. Barany (Au) (1914) ; — (1915) ; — (1916) ; — (1917) ; — (1918) ; J. Bordet (Be) (1919) ; A. Krogh (Da) (1920) ; — (1921) ; A. Hill (B), O. Meyerhof (G) (1922) ; F. G. Banting (C), J. R. Macleod (C) (1923) ; W. E. Einthoven (D) ((1924) ; — (1925) ; J. Fibiger (Da) (1926) ; J. Wagner-Jauregg (Au) (1927) ; C. Nicolle (F) (1928) ; C. Eijkman (D), F. G. Hopkins (B) (1929) ; K. Landsteiner (Au) (1930) ; O. Warburg (G) (1931) ; C. S. Sherrington (B), E. D. Adrian (B) (1932) ; T. H. Morgan (A) (1933) ; G. Minot (A), W. Murphy (A), G. Whipple (A) (1934) ; H. Spemann (G) (1935) ; Sir H. H. Dale (B), O. Loewi (G) (1936) ; A. V. Szent Gyorgyi (H) (1937) ; C. Heymans (Be) (1938) ; G. Domagk (G) (1939) ; 1940 to 1942 (no awards) ; H. Dam (Da), F. A. Doisy (A) (1943) ; E. J. Erlanger (A), H. S. Gasser (A) (1944) ; Sir A. Fleming (B), Sir H. Florey (B), E. B. Chain (B) (1945) ; H. J. Muller (A) (1946) ; B. A. Houssay (Ar), C. F. Cori (A), G. T. Cori (A) (1947) ; P. Muller (Sw) (1948) ; W. R. Hess (Sw), A. F. Moniz (Po) (1949) ;

E. C. Kendall (A), P. S. Hench (A), R. Reichstein (Sw) (1950); M. Theiler (A) (1951); S. Waksman (A) (1952); H. A. Krebs (B), F. A. Lipmann (A) (1953); J. F. Enders (A), F. C. Robins (A), T. H. Weller (A) (1954); Hugo Theorell (S) (1955); A. F. Cournaud (A), D. W. Richards (A), W. Forssmann (G) (1956); D. Bovet (I) (1957); G. W. Beadle (A), E. L. Tatum (A), J. Lederberg (A) (1958); S. Ochoa (A), A. Kornberg (A) (1959); P. B. Medawar (B), Sir M. Burnet (Aus) (1960); F. H. C. Crick (B), M. H. F. Wilkins (B), J. D. Watson (A) (1962); G. von Brekesy (H) (1961); Sir John Carew Eccles, Allan Lloyd Hodgkin, Andrew Fielding Huxley (1963); Konard Bloch, Feodor Lynen (1964); Jacques Monod, Francois Jacob, Andra Lwoff (1965); Peyton Rous, Charles B. Huggins (1966); Haldan Keffer Hartline (A), George Wald (A), Ragnar Granit (Swe) (1967); Robert W. Holley, H. Gobind Khorana, Marshall W. Nirenberg (all U.S.A.) (1968); Dr. Max Delbrueck, Dr. Alfred Hershey, Dr. Salvador Luria (All American) (1969); Sir Bernar Katz (B); Dr. Ulfvon Euler (Sw), Dr. Julius Axelord (A) (1970); Dr. Earl Wilbur Sutherland (A) (1971); Dr. G. M. Edelman (A), Dr. R. Porter (B) (1972); Prof. Karl von Frisch (Au), Dr. Konard Lorenz (Au), Prof. Nikolaas Tinbergon (D) (1973); Dr. Albert Claude (Lux.), Dr. Christian De Duve (B), Dr. George Palade (Ru) (1974); Dr. David Baltimore (A), Dr. Martin Temin (A), Dr. Renato Dulbecco (A) (1975); Baruch S. Blumberg (A), D. Carleton Gajdusek (A) (1976); Dr. Roger Guillemin (A), Dr. Andrew Shally (A) & Dr. Rosalyn Yalow (A) (1977); Prof. Werner Arber (S), Daniel Nathans (A), Hamilton O. Smith (A) (1978).

Literature : B. F. A. Sully Prudhomme (F) (1901); T. Mommsen (G) (1902); B. Bjornson (N) (1903); F. Mistral (F), Echegaray (Sp) (1904); H. Sieukiewic (P) (1905); G. Carducci (I) (1906); Rudyard Kipling (B) (1907); R. Eucken (G) (1908); S. Lageriof (S) (1909); P. Heyse (G) (1910); N. Maeterlinck (Be) (1911); G. Hauptmann (G) (1912); R. Tagore (In) (1913); — (1914); R. Rolland (F) (1915); V. Von Heidenstam (S) (1916); K. Gjellerup (Da), H. Pontoppidan (Da) (1917); — (1918); C. Spitteler (Sw) (1919); K. Hamsum (N) (1920); A. France (I) (1921); J. Benavente (Sp) (1922); W. B. Yeats (Ir) (1923); W. Reymont (P) (1924); G. B. Shaw (B) (1925); G. Deledda (I) (1926); H. Bergson (F) (1927); S. Undset (N) (1928); T. Mann (G) (1929); S. Lewis (A) (1930); E. A. Karifeldt (S) (1931); J. Galsworthy (B) (1932); Bunin (R) (1933); L. Pirandello (I) (1934); — (1935); E. O'Neill (A) (1936); R. Martin du Gard (F) (1937); Pearl S. Buck (A) (1938); F. E. Sillanpaa (Fi) (1939); 1940 to 1942 (no awards); — (1943); J. V. Jensen (Da) (1944); G. Mistral (1945); H. Hesse (Sw) (1946); Andre Gide (F) (1947); T. S. Fliot (B) (1948); W. Faulkner (A) (1949); Lord Russel (B) (1950); P. Lageirkvist (S) (1951); F. Maurisac (F) (1952); Sir W. S. Churchill (B) (1953); E. Hemingway (A) (1954); Halldor Laxness (Ic) (1955); J. Ramon Jimenez (Sp) (1956); A. Camus (F) (1957); B. Pasternak (R) (1958); S. Quasimode (I) (1959); A. St. Leger (F) (1960); J. Steinbeck (A) (1961); I. Andric (Y), J. Steinbeck (A) (1962); Giorgos Stylia nos Sefariads (1963); — (1964); Mikhail Sholokhov (1965); Samuel Joseph Agnon, Miss Nelly Sachs (1966); Miguel Angel Austurias (Greek) (1967); Yasunari Kawabata (J) (1968); Samuel Becket (Ir) (1969); Alexander Sozhenitsyn (R) (1970); Pablo Neruda (Ch) (1971); Heinrich Boell (G) (1972); Patrick White (Aus) (1973); Eyvind Johnson (Sw); Harry Martinson (Sw) (1974); Poet Eugenio Montale (I) (1975); Saul Bellow (A) (1976); Vicente Aleixandre (Sp.) (1977); Isaac B. Singer (A) (1978).

Peace : H. Dunant (Sw), F. Passy (F) (1901); E. Ducommun (Sw), A. Gobat (Sw) (1902); Sir W. R. Cremer (B) (1903); Institut de Droit International (1904); Bertha von Suttner (Au) (1905); T. Roosevelt (A) (1906); E. T. Moneta (I), L. Renault (F) (1907); K. P. Arnoldson (S), P. Bajer (Da) (1908); A. M. F. Beernaert (Be), Baron de Estournelles de Constant de Rebecque (F) (1909); The Bureau International Permanent De la Paix, Berne (1910); T. M. C. Asser (D), A. H. Fried (Au) (1911); E. Root (A) (1912); H. La Fontaine (Be) (1913); — (1914); — (1915); — (1916); Comite International de la Croix Rouge, Geneva (1917); — (1918); W. Wilson (A) (1919); L. Bourgeois (F) (1920); K. H. Branting (S), C. L. Lange (N) (1921); F. Nansen (N) (1922); — (1923); — (1924); Sir A. Chamberlain (B), C. G. Dawes (A) (1925); A. Briand (F), G. Stresemann (G) (1926); F. Buisson (F), L. Quidde (G) (1927); — (1928); F. B. Kellogg (A) (1929); L. O. J. Soderblom (S) (1930); Jane Addams (A), N. M. Butler (A) (1931); — (1932); Sir Norman Angell (B) (1933); Arthur Henderson (B) (1934); C. von Ossietzky (G) (1935); C. de S. Lamas (Ar) (1936); Viscount Cecil of Chilwood (B) (1937); Office International Nansenpour les Refugies (1938); — (1939); 1940 to 1942 (no awards); — (1943); Comite International de la Croix Rouge, Geneva (1944); Cordell Hull (A) (1945); Emily G. Balch (A), J. R. Mott (A) (1946); American & British Quaker Organisations (1947); —(1948); Lord Boyd-Orr (B) (1949); Ralph Bunche (A) (1950); Leon Jouhaux (F) (1951); A. Schweitzer (F) (1952); Gen. G. Marshall (A) (1953); U.N. High Commission for Refugees (1954); — (1955); — (1956); L. B. Pearson (C) (1957); Father George Pire (Be) (1958); P. J. Noel-Baker (B) (1959); A. Luthuli (S.A.) (1960); D. Hammarskjold (S) (1961); L. C. Pauling (A) (1962); International Red Cross and League of Red Cross Societies (1963); Martin Luther King (1964); UNICEF (1965); — (1966); — (1967); Bene Cassin (Fr) (1968); International Labour Organisation (1969); Norman Earnest Borlaug (A) (1970); Willy Brandt (W.G.) (1971); Dr. Henry Kissinger (A); Lee Duc Tho (N.V.) (1973); Eisoku Sato (J), Sean McBride (Ir) (1974); Dr. Andrei Dimitrievich Sakharov (Ru) (1975); Betty Williams, Mairead Corrigan and Claran Mckeown (Ir.) (1976); Amnesty International (1977); Pres. Anwar Sadat (E) and Menachem Begin (I) (1978).

Economics : Prof. Jan Tinbergen (Dutch) (1969); Prof. Paul A. Samulson (A) (1970); Dr. Simon Kuznets (U.S.A.) (1971); Prof. John R. Hicks (B), Prof. Kenneth J. Arrow (A) (1972); Prof. Wassily Leontief (R) (1973); Prof. Gunner Myrdal (Sw), Friedrich Von Hayek (Br) (1974); Dr. Tjalling Roopmans (A), Dr. Leonid Kantorovich (Ru) (1975); Prof. Milton Friedman (A) (1976); Prof. Bertil Ohlin (S), Prof. James Meade (B) (1977); Prof. Herbert A. Simon (A) (1978).

A — American ; Ar — Argentine ; Au — Austrian ; Aus — Australian ; B — British ; Be — Belgian ; C — Canadian ; Ch — Chilean ; Chi — Chinese ; Cz — Czech ; D — Dutch ; Da — Danish ; F — French ; Fi — Finnish ; G — German ; H — Hungarian ; I — Italian ; In — Indian ; Ic — Icelandic ; Ir — Irish ; J — Japanese ; Lux — Luxembourg ; N — Norwegian ; N.V. — North Vietnam ; P — Polish ; Po — Portuguese ; R — Russian ; Ru — Rumanian ; S — Swedish ; S.A. — South African ; Sp — Spanish ; Sw — Swiss ; Y — Yugoslav.

Note:—N. A. : Not awarded.

SPORTS

THE history of the OLYMPIC GAMES is rich with famous names. Every four years, in some major city of the world, thousands of Olympians gather for athletic competition. In 1896 Baron Pierre de Coubertin fathered the modern Olympic Games. "The important thing" he said, "in the Olympic Games is not winning but taking part. The essential thing in life is not conquering but fighting well."

The first recorded Olympic event took place in 776 B.C.

OLYMPIC CHAMPIONS

Track and Field–Men

100 Metres

Year	*Winner*	*Country*	*Time (Seconds)*
1896	Thomas Burke	U.S.A.	12·0
1900	Francis Jarvis	"	10·8
1904	Archie Hahn	"	11·0
1908	Reginald Walker	S. Africa	10·8
1912	Ralph Craig	U.S.A.	10·8
1920	Charles Paddock	"	10·8
1924	Harold Abrahams	G.B.	10·6
1928	Percy Williams	Canada	10·8
1932	Eddie Tolan	U.S.A.	10·3
1936	Jessie Owens	"	10·3
1948	Harrison Dillard	"	10·3
1952	Lindy Remigino	"	10·4
1956	Bobby Morrow	"	10·5
1960	Armin Hary	Germany	10·0
1964	Bob Hayes	U.S.A.	10·0
1968	Hines	"	9·9
1972	Valeriy Borzov	U.S.S.R.	10·14
1976	Hasely Crawford	Trinidad	10·06

200 Metres

1900	J. Walter Tewksbury	U.S.A.	22·2
1904	Archie Hahn	"	21·6
1908	Robert Kerr	Canada	22·6
1912	Ralph Craig	U.S.A.	21·7
1920	Allan Woodring	"	22·0
1924	Jackson Scholz	"	21·6
1928	Percy Williams	Canada	21·8
1932	Eddie Tolan	U.S.A.	21·2
1936	Jessie Owens	"	20·7
1948	Mel Patton	"	21·1
1952	Andrew Stanfield	"	20·7
1956	Bobby Morrow	"	20·6
1960	Livio Berruti	Italy	20·5
1964	Henry Carr	U.S.A.	20·3
1968	Smith	"	19·8
1972	Valeriy Borzov	U.S.S.R.	20·0
1976	Donald Quarrie	Jamaica	20·23

400 Metres

1896	Thomas Burke	U.S.A.	54·2
1900	Maxey Long	"	49·4
1904	Harry Hillman	"	49·2
1908	Wyndham Halswelle	G.B.	50·0
1912	Charles Reidpath	U.S.A.	48·2
1920	Beville Rudd	S. Africa	49·6
1924	Eric Liddell	G.B.	47·6
1928	Ray Barbuti	U.S.A.	47·8
1932	William Carr	"	46·2
1936	Archie Williams	"	46·5
1948	Arthur Wint	Jamaica	46·2
1952	George Rhoden	"	45·9
1956	Charles Jenkins	U.S.A.	46·7
1960	Otis Davis	"	44·9
1964	Mike Larabee	"	45·1
1968	Evans	"	43·8
1972	Vince Mathews	"	44·7
1976	Alberto Juantorena	Cuba	44·26

800 Metres

Year	*Winner*	*Country*	*Time (mts. seconds)*
1896	Edwin Flack	G.B.	2·11·0
1900	Alfred Tysoe	"	2·01·4
1904	James Lightbody	U.S.A.	1·56·0
1908	Melvin Sheppard	"	1·52·8
1912	James Meredith	"	1·51·9
1920	Albert Hill	G.B.	1·53·4
1924	Douglas Lowe	"	1·52·4
1928	Douglas Lowe	"	1·51·8
1932	Thos. Hampson	"	1·49·8
1936	John Woodruff	U.S.A.	1·52·9
1948	Mal Whitfield	"	1·49·2
1952	Mal Whitfield	"	1·49·2
1956	Thomas Courtney	"	1·47·7
1960	Peter Snell	New Zealand	1·46·3
1964	Peter Snell	"	1·45·1
1968	Doubell	Australia	1·44·3
1972	David Wottle	U.S.A.	1·45·9
1976	Alberto Juantorena	Cuba	1·43·50

1,500 Metres

1896	Edwin Flack	G.B.	4·33·2
1900	Charles Bennett	"	4·06·2
1904	James Lightbody	U.S.A.	4·05·4
1908	Melvin Sheppard	"	4·03·4
1912	Arnold Jackson	G.B.	3·56·8
1920	Albert Hill	"	4·01·8
1924	Paavo Nurmi	Finland	3·53·6
1928	Harry Larva	"	3·53·2
1932	Luigi Beccali	Italy	3·51·2
1936	Jack Lovelock	New Zealand	3·47·8
1948	Henry Eriksson	Sweden	3·49·8
1952	Joseph Barthel	Luxembourg	3·45·2
1956	Ron Delaney	Ireland	3·41·2
1960	Herbert Elliot	Australia	3·35·6
1964	Peter Snell	New Zealand	3·38·1
1968	K. Keino	Kenya	3·34·9
1972	Pekka Vasala	Finland	3·36·3
1976	John Walker	New Zealand	3·39·17

5,000 Metres

1912	Hannes Kolehmainen	Finland	14·36·6
1920	Joseph Guillemot	France	14·55·6
1924	Paavo Nurmi	Finland	14·31·2
1928	Willie Ritola	"	14·38·0
1932	Lauri Lehtinen	"	14·30·0
1936	Gunnar Hockerd	"	14·22·2
1948	Gaston Reiff	Belgium	14·17·6
1952	Emile Zatopek	Czechoslovakia	14·06·6
1956	Vladimir Kuts	U.S.S.R.	13·39·6
1960	Murray Halberg	New Zealand	13·43·4
1964	Bob Schul	U.S.A.	13·48·8
1968	Gammoudi	Tunisia	14·05·0
1972	Lasse Viren	Finland	13·26·4
1976	Lasse Viren	"	13·27·76

10,000 Metres

1912	Hannes Kolehmainen	Finland	31·20·8
1920	Paavo Nurmi	"	31·45·8
1924	Willie Ritola	"	30·23·2
1928	Paavo Nurmi	"	30·18·8
1932	Janusz Kusocinski	Poland	30·11·4
1936	Ilmari Salmenin	Finland	30·15·4
1948	Emil Zatopek	Czechoslovakia	29·59·6
1952	Emil Zatopek	"	29·17·0

10,000 Metres — *(Contd.)*

Year	*Winner*	*Country*	*Time (mts. seconds)*
1956	Vladimir Kuts	U.S.S.R.	28·45·6
1960	Petr Bolotnikov	,,	28·32·2
1964	Billy Mills	U.S.A.	28·24·4
1968	Temu	Kenya	29·27·4
1972	Laase Viren	Finland	27·38·4
1976	Lasse Viren	,,	27·40·38

Marathon

(hrs. mts. secs.)

1896	Spindon Loues	Greece	2·58·50·0
1900	Michel Teato	France	2·59·45·0
1904	Thomas Hicks	U.S.A.	3·28·53·0
1908	John Hayes	,,	2·55·18·4
1912	Kenneth Macarthur	S. Africa	2·36·54·8
1920	Hannes Kolehmainen	Finland	2·32·35·8
1924	Albin Stenroos	France	2·41·22·6
1928	El Ouafi	,,	2·32·57·0
1932	Juan Zabala	Argentina	2·31·36·0
1936	Kitei Son	Japan	2·29·19·2
1948	Delfo Cabrera	Argentina	2·34·51·6
1952	Emil Zatopek	Czechoslovakia	2·23·03·2
1956	Alain Mimoun	France	2·25·00·0
1960	Abebe Bikila	Ethiopia	2·15·16·2
1964	Abebe Bikila	,,	2·12·11·2
1968	Wolde	,,	2·20·26·4
1972	Frank Shorter	U.S.A.	2·12·19·7
1976	Waldemer Cierpinski	G.D.R.	2·09·55·0

3,000-Metre Steeplechase

1920	Percy Hodge	G.B.	10·00·4
1924	Willie Ritola	Finland	9·33·6
1928	Toiva Laukola	,,	9·21·8
1932	Volmari Iso-Hollo	,,	10·33·4
1936	Volmari Iso-Hollo	,,	9·03·8
1948	Thore Sjostrand	Sweden	9·04·6
1952	Horace Ashenfelter	U.S.A.	8·45·4
1956	Chris Brasher	G.B.	8·41·2
1960	Zdzislav Krzyszkowiak	Poland	8·34·2
1964	Gaston Roelants	Belgium	8·30·8
1968	Biwatte	Kenya	8·51·0
1972	Kip Keino	,,	8·23·6
1976	Anders Garderud	Sweden	8·08·2

20,000-Metre Walk

1956	Leonid Spirine	U.S.S.R.	1·31·27·0
1960	Vladimir Golubnichy	,,	1·34·07·2
1964	Kenneth Mathews	G.B.	1·29·34·0
1968	Vladimir Golubnichy	U.S.S.R.	1·33·58·4
1972	Peter Frenkel	E. Germany	1·26·42·6
1976	Daniel Batista	Mexico	1·24·40·6

50,000-Metre Walk

1932	Thomas Greene	G.B.	4·50·10·0
1936	Harold Whitlock	,,	4·30·41·4
1948	John Ljunggren	Sweden	4·41·52·0
1952	Guiseppe Dordoni	Italy	4·28·07·8
1956	Norm. Reed	New Zealand	4·30·42·8
1960	Donald Thomson	G.B.	4·25·30·0
1964	Abdon Pamich	Italy	4·11·12·4
1968	Hohne	G.D.R.	4·20·13·6
1972	B. Kannenberg	W. Germany	3·56·11·6

400-Metre Relay

Year and winner (Country) respectively :

1912 Great Britain ; 1920 United States ; 1924 United States ; 1928 United States ; 1932 United States ; 1936 United States ; 1948 United States ; 1952 United States ; 1956 United States ; 1960 Germany ; 1964 United States ; 1968 United States ; 1972 United States ; 1976 United States.

1,600-Metre Relay

1908 United States ; 1912 United States ; 1920 Great Britain ; 1924 United States ; 1928 United States ; 1932 United States ; 1936 Great Britain ; 1948 United States ; 1952 Jamaica ; 1956 United States ; 1960 United States ; 1964 United States ; 1968 United States ; 1972 Kenya ; 1976 United States.

110-Metre Hurdles

Year	*Winner*	*Country*	*Time (Seconds)*
1896	Thomas Curtis	U.S.A.	17·6
1900	Alvin Kraenzlein	,,	15·4
1904	Fredrick Schule	,,	16·0
1908	Forrest Smithson	,,	15·0
1912	Fredrick Kelly	,,	15·1
1920	Earl Thomson	Canada	14·8
1924	Daniel Kinsey	U.S.A.	15·0
1928	Sydney Atkinson	S. Africa	14·8
1932	George Saling	U.S.A.	14·6
1936	Forrest Townes	,,	14·2
1948	William Porter	,,	13·9
1952	Harrison Dillard	,,	13·7
1956	Lee Calhoun	,,	13·5
1960	Lee Calhoun	,,	13·8
1964	Hayes Jones	,,	13·6
1968	Davenport	,,	13·3
1972	Rodney Milburn	,,	13·24
1976	Guy Drut	France	13·30

400-Metre Hurdles

1900	J. Walter Tewksbury	U.S.A.	57·6
1904	Harry Hillman	,,	53·0
1908	Charles Bacon	,,	55·0
1920	Frank Loomis	,,	54·0
1924	F. Morgan Taylor	,,	52·6
1928	Lord David Burghley	G.B.	53·4
1932	Robert Tisdall	Ireland	51·8
1936	Glenn Hardin	U.S.A.	52·4
1948	Roy Cochran	,,	51·1
1952	Charles Moore	,,	50·8
1956	Glenn Davis	,,	50·1
1960	Glenn Davis	,,	49·3
1964	Rex Cawley	,,	49·6
1968	Hemery	G.B.	48·1
1972	John Akii-Bua	Uganda	47·82
1976	Edwin Moses	U.S.A.	47·64

Pole Vault

Year	*Winner*	*Country*	*Height*
1896	Welles Hoyt	U.S.A.	10′ 9$\frac{3}{4}$″
1900	Irving Baxter	,,	10′ 9·9″
1904	Charles Drovak	,,	11′ 6″
1908	Albert Gilbert Edward Cook	,, ,,	12′ 2″
1912	Harry Babcock	,,	12′ 11$\frac{1}{2}$″
1920	Frank Foss	,,	12′ 5·9″

Pole Vault—(*Contd.*)

Year	*Winner*	*Country*	*Height*
1924	Lee Barnes	U.S.A.	12' 11½"
1928	Sabin Carr	"	13' 9·3"
1932	William Miller	"	14' 1·7"
1936	Earle Meadows	"	14' 3¼"
1948	O. Guinn Smith	"	14' 1¼"
1952	Robert Richards	"	14' 11¼"
1956	Robert Richards	"	14' 11½"
1960	Donald Bragg	"	15' 5·1"
1964	Fred Hansen	"	16' 8¾"
1968	Seagren	"	17' 8½"
1972	Wolfgang Nordwig	E. Germany	18' ½"
1976	Tadeusz Slusarsky	Poland	18' ½"

High Jump

1896	Ellery Clark	U.S.A.	5' 11¼"
1900	Irving Baxter	"	6' 2·4"
1904	Samuel Jones	"	5' 11"
1908	Harry Porter	"	6' 3"
1912	Alma Richards	"	6' 4"
1920	Richard Landon	"	6' 4¼"
1924	Harold Osborne	"	6' 5·9"
1928	Robert King	"	6' 4·3"
1932	Duncan Mcnaughton	Canada	6' 5·5"
1936	Cornelius Johnson	U.S.A.	6' 7·9"
1948	John Winter	Australia	6' 6"
1952	Walter Davies	U.S.A.	6' 8¼"
1956	Charles Dumas	"	6' 11½"
1960	Robert Shavlakadze	U.S.S.R.	7' 1"
1964	Valerie Brumel	"	7' 1¾"
1968	Fosbury	U.S.A.	7' 4¼"
1972	Yuri Tarmak	U.S.S.R.	7' 3¾"
1976	Jacek Wszola	Poland	7' 4½"

Long Jump

Year	*Winner*	*Country*	*Length*
1896	Ellery Clark	U.S.A	20' 10"
1900	Alvin Kraenzlein	"	23' 6·7"
1904	Myer Prinstein	"	24' 1"
1908	Frank Irons	"	24' [illegible]
1912	Albert Gutterson	"	24' 11¼"
1920	William Pettersson	Sweden	23' 5½"
1924	DeHart Hubbard	U.S.A	24' 5·1"
1928	Edward Hamm	"	25' 4¾"
1932	Edward Gordon	"	25' ¾"
1936	Jesse Owens	"	[illegible] 5·3"
1948	Willy Steele	"	25' 8"
1952	Jerome Biffle	"	24' 10"
1956	Gregory Bell	"	25' 8¼"
1960	Ralph Boston	"	26' 7¾"
1964	Lynn Davis	G.B	[illegible]
1968	Beamon	U.S	[illegible]
1972	Randy Williams	"	[illegible]
1976	Arnie Robinson	"	27' ½"

Triple Jump

1896	James Connely	U.S.A.	[illegible]
1900	Myer Prinstein	"	[illegible] 4¾"
1904	Myer Prinstein	"	[illegible]
1908	Timothy Ahearne	G.B.	[illegible] 11¼"
1912	Gustaf Lindblom	Sweden	[illegible]
1920	Vilho Tuulos	Finland	[illegible]
1924	Archibald Winter	Australia	[illegible] 11·1"
1928	Mikio Oda	Japan	[illegible] 10 ¾"
1932	Chuhei Nambu	"	[illegible]

Triple Jump—(*Contd.*)

Year	*Winner*	*Country*	*Length*
1936	Naoto Tajima	Japan	52' 5·7"
1948	Arne Ahman	Sweden	50' 6¼"
1952	Adhemar Farreira da Silva	Brazil	53' 2½"
1956	Adhemar Farreira da Silva	"	53' 7½"
1960	Jozef Schmidt	Poland	55' 1¾"
1964	Jozef Schmidt	"	55' 3¼"
1968	Viktor Saneev	U.S.S.R.	57' ¾"
1972	Viktor Saneev	"	56' 10"
1976	Viktor Saneev	"	56' 8·7"

16-lb. Shot-Put

1896	Robert Garett	U.S.A.	36' 9¾"
1900	Richard Sheldon	"	46' 3·1"
1904	Ralph Rose	"	48' 7"
1908	Ralph Rose	"	46' 7½"
1912	Patrick McDonald	"	50' 4"
1920	Ville Porhola	Finland	48' 7·1"
1924	Clarence Houser	U.S.A.	49' 2½"
1928	John Kuck	"	52' 11/16"
1932	Leo Sexton	"	52' 6 3/16"
1936	Hans Woelke	Germany	53' 1¾"
1948	Wilbur Thompson	U.S.A.	56' 2"
1952	Parry O'Brein, Jr.	"	57' 1½"
1956	Parry O'Brein, Jr.	"	60' 11"
1960	William Nieder	"	64' 6¾"
1964	Dallas Long	"	66' 8½"
1968	Matson	"	67' 4¾"
1972	Wladyslaw Komar	Poland	69' 5"
1976	Udo Beyer	G.D.R.	69' ¾"

Discus Throw

1896	Robert Garett	U.S.A.	95' 7½"
1900	Rudolf Bauer	Hungary	118' 2·9"
1904	Martin Sheridan	U.S.	128' 10½"
1908	Martin Sheridan	"	134' 2"
1912	Armas Taipale	Finland	145' 9/16"
1920	Elmer Niklander	"	146' 7"
1924	Clarence Houser	U.S.A.	151' 5¼"
1928	Clarence Houser	"	155' 2 4/5"
1932	John Anderson	"	162' 4·7"
1936	Kenneth Carpenter	"	165' 7½"
1948	Adolfo Consolini	Italy	173' 2"
1952	Sim Iness	U.S.A.	180' 6½"
1956	Alfred Oerter	"	184' 10½"
1960	Alfred Oerter	"	194' 2"
1964	Alfred Oerter	"	200' 1½"
1968	Alfred Oerter	"	212' 6½"
1972	Ludwik Danek	Czechoslovakia	210' 2"
1976	Mac Wilkins	U.S.A.	221' 5·4"

16-lb. Hammer Throw

1900	John Flanagan	U.S A.	167' 4"
1904	John Flanagan	"	168' 1"
1908	John Flanagan	"	170' 4¼"
1912	Mathew McGarth	"	179' 7·1"
1920	Patrick Ryan	"	173' 5·6"
1924	Frederick Tootell	"	174' 10¼"
1928	Patrick O'Callaghan	Ireland	168' 7½"
1932	Patrick O'Callaghan	"	176' 11·1"
1936	Karl Hein	Germany	185' 4¼"
1948	Imre Nemeth	Hungary	183' 11½"
1952	Jozsef Csermak	"	197' 11¾"
1956	Harold Connolly	U.S.A.	207' 3½"
1960	Vasily Rudenkov	U.S.S.R.	220' 1·6"

16-lb. Hammer Throw — *(Contd.)*

Year	*Winner*	*Country*	*Length*
1964	Romuald Klim	U.S.S.R.	228′ 10½″
1968	Zsivotzky	Hungary	240′ 8″
1972	Bandarchuck	U.S.S.R.	247′ 8″
1976	Yuri Sedykh	,,	254′ 3¾″

Javelin Throw

1908	Erik Lemming	Sweden	179′ 10½″
1912	Erik Lemming	,,	198′ 11¼″
1920	Jonni Myyra	Finland	215′ 9¾″
1924	Jonni Myyra	,,	206′ 6¾″
1928	Erik Lundquist	Sweden	218′ 6⅛″
1932	Matti Jarvinen	Finland	238′ 7″
1936	Gerhard Stoeck	Germany	235′ 8 5/16″
1948	Tapio Rautavaara	Finland	228′ 10½″
1952	Cy Young	U.S.A.	242′ ¾″
1956	E. Danielson	Norway	281′ 2¼″
1960	Viktor Cybulenko	U.S.S.R.	277′ 8 3/8″
1964	Pauli Nevala	Finland	271′ 2¼″
1968	Lusis	U.S.S.R.	295′ 7¼″
1972	Klaus Wolfermann	W. Germany	296′ 9½″
1976	Miklos Nemeth	Hungary	310′ 3¾″

Decathlon

Year	*Winner*	*Country*	*Points*
1912	Hugo Wislander	Sweden	7724·49
1920	Helge Lovland	Norway	6804·35
1924	Harold Osborn	U.S.A.	7710·77
1928	Paavo Yrjola	Finland	8053·29
1932	James Bausch	U.S.A.	8462·23
1936	Glenn Morris	,,	7900·00
1948	Robert Mathias	,,	7139·00
1952	Robert Mathias	,,	7887·00
1956	Milton Campbell	,,	7937·00
1960	Rafer Johnson	,,	8392·00
1964	Willie Holdorf	Germany	7877·00
1968	Toomey	U.S.A.	8193·00
1972	Nikolai Avilow	U.S.S.R.	8454·00
1976	Bruce Jenner	U.S.A.	8618·00

WOMEN'S

Track and Field

100-Metre

Year	*Winner*	*Country*	*Time (Seconds)*
1928	Elizabeth Robinson	U.S.A.	12·2
1932	Stanislawa Walasiewicz	Poland	11·9
1936	Helen Stephens	U.S.A.	11·5
1648	Fanny Blankers-Koen	Netherlands	11·9
1952	Marjorie Jackson	Australia	11·5
1956	Betty Cuthbert	,,	11·5
1960	Wilma Rudolph	U.S.A.	11·0
1964	Wyomia Tyus	,,	11·4
1968	Wyomia Tyus	,,	11·0
1972	Renate Stecher	G.D.R.	11·07
1976	Annegret Richter	W. Germany	11·01

200-Metre

1948	Fanny Blankers-Koen	Netherlands	24·4
1952	Marjorie Jackson	Australia	23·7
1956	Betty Cuthbert	,,	23·4
1960	Wilma Rudolph	U.S.A.	24·0

200-Metre — *(Contd.)*

Year	*Winner*	*Country*	*Time (Seconds)*
1964	Edith Mcguire	U.S.A	23·0
1968	Szewinska	Poland	22·5
1972	Renate Stecher	G.D.R.	22·4
1976	Baerbel Eckert	,,	22·37

400-Metre

1976	Irena Szewinska	Poland	49·29

800-Metre

1928	Linda Radke	Germany	2·16·8
1960	Ljudmilla Sehvcova	Poland	2·04·3
1964	Ann Packer	G.B.	2·01·1
1968	Manning	U.S.	2·00·9
1972	H. Falck	W. Germany	1·58·6
1976	Tatyana Kazankina	U.S.S.R.	1·54·94

1,500-Metre

1976	Tatyana Kazankina	U.S.S.R.	4·05·48

4×100-Metre Relay

1976		G.D.R.	0·42·55

4 × 400-Metres Relay

Year and winner respectively: 1928 Canada; 1932 U.S.; 1936 U.S.; 1948 Netherlands; 1952 U.S.; 1956 Australia; 1960 U.S.; 1964 Poland; 1968 U.S.; 1972 W. Germany; 1976 G.D.R.

80-Metre Hurdles

Year	*Winner*	*Country*	*Time (Seconds)*
1932	Mildred Didrikson	U.S.A.	11·7
1936	Trebisonda Villa	Italy	11·7
1948	Fanny Blankers-Koen	Netherlands	11·2
1952	Shirley Strickland de la Hunty	Australia	10·9
1956	Shirley Strickland de la Hunty	,,	10·7
1960	Irina Press	U.S.S.R.	10·8
1964	Karin Balzer	Germany	10·5
1968	Caird	Australia	10·3

100-Metres Hurdles

1972	Annelie Ehrhardt	G.D.R.	12·59
1976	Johanna Schaller	,,	12·77

High Jump

Year	*Winner*	*Country*	*Height*
1928	Ethel Catherwood	Canada	5′ 3″
1932	Jean Shiley	U.S.A.	5′ 5¼″
1936	Ebolya Csak	Hungary	5′ 3″
1948	Alice Coachman	U.S.A.	5′ 6⅛″
1952	Esther Brann	S. Africa	5′ 5¾″
1956	Mildred Macdaniel	U.S.A.	5′ 9¼″
1960	Iolanda Balas	Rumania	6′ ¼″
1964	Iolanda Balas	,,	6′ 2⅜″
1968	Rezkova	Czechoslovakia	5′ 11¾″
1972	Ulrike Meyfarth	G.D.R.	6′ 3¼″
1976	Rosemarie Ackermann	,,	6′ 3¾″

Discus Throw

Year	*Winner*	*Country*	*Length*
1928	Helena Konopacka	Poland	129′ 11⅞″
1932	Lillian Copland	U.S.A.	133′ 2″
1936	Gisela Mauermayer	Germany	156′ 3 3/16″
1948	Micheline Ostermayer	France	137′ 6½″
1952	Nina Romaschkova	U.S.S.R.	168′ 8½″
1956	Olga Fikotova	Czechoslovakia	165′ 7″
1960	Nina Ponomareva	U.S.S.R.	180′ 8¼″
1964	Tamara Press	,,	187′ 10¾″
1968	Manoliu	Rumania	191′ 2½″
1972	Faina Melnik	U.S.S.R.	218′ 7″
1976	Evelin Schlaak	G.D.R.	226′ 4½″

Javelin Throw

Year	*Winner*	*Country*	*Length*
1932	Mildred Didrikson	U.S.A.	143′ 4″
1936	Tilly Fleischer	Germany	148′ 2¾″
1948	Herma Bauma	Austria	149′ 6″
1952	Dana Zatopekova	Czechoslovakia	165′ 7″
1956	Inessa Janzeme	U.S.S.R.	176′ 8″
1960	Elvira Ozolina	,,	183′ 8″
1964	Mihaela Penes	Rumania	198′ 7½″
1968	Nemeth	Hungary	198′ ½″
1972	Ruth Fuchs	G.D.R.	209′ 7″
1976	Ruth Fuchs	,,	216′ 4″

Pentathlon

Year	*Winner*	*Country*	*Length*
1976	Sigrun Siegl	G.D.R.	4,745 pts.

Shot-Put

Year	*Winner*	*Country*	*Length*
1948	Micheline Ostermayer	France	45′ 1½″
1952	Galina Zybina	U.S.S.R.	50′ 1½″
1956	Tamara Tishkyeovich	,,	54′ 5″
1960	Tamara Press	,,	56′ 9⅞″
1964	Tamara Press	,,	59′ 6¼″
1968	Gummel	E. Germany	64′ 4″
1972	Nadezhda Chizhova	U.S.S.R.	69′ 0″
1976	Ivanka Khristova	Bulgaria	69′ 5″

Long Jump

Year	*Winner*	*Country*	*Length*
1948	Olga Gyarmati	Hungary	18′ 8¼″
1952	Yvette Williams	New Zealand	20′ 5¾″
1956	Elzbeita Krzesekinska	Poland	20′ 9¾″
1960	Vera Krepkina	U.S.S.R.	20′ 10¾″
1964	Mary Rand	G.B.	22′ 2¼″
1968	Niscopoleanu	Rumania	22′ 4½″
1972	Heide Rosendahl	W. Germany	22′ 3″
1976	Angela Voigt	G.D.R.	22′ 2½″

SWIMMING

Men

100-Metre Freestyle

Year	*Winner*	*Country*	*Time (mts. seconds)*
1976	Jim Montgomery	U.S.A.	0·49·99

200-Metre Freestyle

Year	*Winner*	*Country*	*Time (mts. seconds)*
1976	Bruce Furniss	U.S.A.	1·50·26

400-Metre Freestyle

Year	*Winner*	*Country*	*Time (mts. seconds)*
1976	Brian Goodell	U.S.A.	3·51·93

Swimming

Men — (*Contd.*)

1,500-Metre Freestyle

Year	*Winner*	*Country*	*Time (mts. seconds)*
1976	Brian Goodell	U.S.A.	15·02·40

4 × 100-Metre Freestyle

Year	*Winner*	*Country*	*Time (mts. seconds)*
1972	Dave Edgar, John Murphy, Jerry Heidenreich, Mark Spitz	U.S.A.	3·26·42

4 × 200-Metre Freestyle

Year	*Winner*	*Country*	*Time (mts. seconds)*
1976	Mike Bruner, Bruce Furniss, John Naber, Jim Montgomery	U.S.A.	7·23·22

100-Metre Breaststroke

Year	*Winner*	*Country*	*Time (mts. seconds)*
1976	John Hencken	U.S.A.	1·03·11

200-Metre Breaststroke

Year	*Winner*	*Country*	*Time (mts. seconds)*
1976	David Wilkie	G. Britain	2·15·11

100-Metre Butterfly

Year	*Winner*	*Country*	*Time (mts. seconds)*
1976	Matt Vogel	U.S.A.	0·54·35

200-Metre Butterfly

Year	*Winner*	*Country*	*Time (mts. seconds)*
1976	Mike Bruner	U.S.A.	1·59·23

100-Metre Backstroke

Year	*Winner*	*Country*	*Time (mts. seconds)*
1976	John Naber	U.S.A.	0·55·49

200-Metre Backstroke

Year	*Winner*	*Country*	*Time (mts. seconds)*
1976	John Naber	U.S.A.	1·59·19

200-Metre Relay

Year	*Winner*	*Country*	*Time (mts. seconds)*
1972	Gunnar Larsson	Sweden	2·07·17

400-Metre Individual Medley

Year	*Winner*	*Country*	*Time (mts. seconds)*
1976	Rod Strachen	U.S.A.	4·23·68

4 × 100-Metre Medley

Year	*Winner*	*Country*	*Time (mts. seconds)*
1976	John Naber, John Hencken, Matt Vogel, Jim Montgomery	U.S.A.	3·42·22

WOMEN

100-Metre Freestyle

Year	*Winner*	*Country*	*Time (mts. seconds)*
1976	Kornelia Ender	G.D.R.	0·55·65

200-Metre Freestyle

Year	*Winner*	*Country*	*Time (mts. seconds)*
1976	Kornelia Ender	G.D.R.	1·59·26

400-Metre Freestyle

Year	*Winner*	*Country*	*Time (mts. seconds)*
1976	Petra Thumer	G.D.R.	4·09·89

800-Metre Freestyle

Year	*Winner*	*Country*	*Time (mts. seconds)*
1976	Petra Thumer	G.D.R.	8·37·14

4 × 100 Metre Freestyle

Year	*Winner*	*Country*	*Time (mts. seconds)*
1976	Kim Peyton, Wendy Boglioli, Jill Sterkel, Shirley Babashoff	U.S.A.	3·44·82

100-Metre Breaststroke

Year	*Winner*	*Country*	*Time (mts. seconds)*
1976	Hannelore Anke	G.D.R.	1·11·16

200-Metre Breaststroke

Year	*Winner*	*Country*	*Time (mts. seconds)*
1976	Marina Koshevaia	U.S.S.R.	2·33·35

Women's 100 Metre Freestyle—(*Contd.*)

Year	*Winner*	*Country*	*Time (mts. seconds)*
	100-Metre Butterfly		
1976	Komelia Ender	G.D.R.	1·00·13
	200-Metre Butterfly		
1976	Andrea Pollack	G.D.R.	2·11·41
	100-Metre Backstroke		
1976	Ulrike Richter	G.D.R.	1·01·83
	200-Metre Backstroke		
1976	Ulrike Richter	G.D.R.	2·13·43
	200-Metre Individual Medley		
1972	Shane Gould	Australia	2·23·07
	400-Metre Individual Medley		
1976	Ulrike Tauber	G.D.R.	4·42·77
	4 × 100-Metre Medley Relay		
1976	Ulrike Richter, Hannelore Anke, Andrea Pollack, Komelia Ender	G.D.R.	4·07·95

DIVING

Men's

Year	*Winner*	*Country*	*Points*
	Springboard		
1976	Philip Boggs	U.S.A.	619·05
	Platform		
1976	Klaus Dibiasi	Italy	600·51
	Women's		
	Springboard		
1976	Jennifer Chandler	U.S.A.	506·19
	Platform		
1976	Elena Vaytsekhovskaia	U.S.S.R.	406·59

JUDO (1976)

Light weight : *Winner :* Papa Mbengue (Senegal); **Welter weight :** Ggeorghi Gheorghiev (Bulgaria); **Middle weight :** Assane Doye (Senegal); **Light Heavy weight :** Carlos Pancheco (Brazil); **Heavy weight :** Sergei Novikov (U.S.S.R.); **Open Category :** James Wooley (U.S.A.).

MODERN PENTATHLON (1976)

Individual : *Winner :* Janusz Pyeiak-Peciak (Poland); **Team :** G. Britain.

GYMNASTICS (1976)

Men

(All-round Competition, 12 exercises combined.)

Team : *Winner :* Japan ; **Individual :** Nikolai Andrianov (U.S.S.R.) ; **Side Horse :** Zoltan Magyar (Hungary); **Floor Exercise :** Nikolai Andrianov (U.S.S.R.) ; **Horse Vault :** Nikolai Andrianov (U.S.S.R.); **Rings :** Nikolai Andrianov (U.S.S.R.); **Parallel Bars :** Sawao Kato (Japan).

Women

Team : *Winner :* U.S.S.R. ; **Individual :** Nadia Commaneci (Rumania); **Floor Exercise :** Nelli Kim (U.S.S.R.); **Horse Vault :** Nelli Kim (U.S.S.R.); **Balance Beam :** Nadia Commaneci (Rumania); **Asymmetrical Bars :** Nadia Commaneci (Rumania).

WRESTLING (1976)

Freestyle

Winners : **48 Kg. :** Khassan Issaev (Bulgaria); **52 Kg.** Yuji Takada (Japan); **57 Kg. :** Vladimir Umin (U.S.S.R.); **62 Kg. :** Jung-Mo Yang (Korea); **68 Kg. :** Pavel Pinigin (U.S.S.R.); **74 Kg. :** Jiichiro Date (Japan); **82 Kg. :** John Paterson (U.S.A.); **90 Kg. :** Levan Tediashvili (U.S.S.R.); **100 Kg. :** Ivan Yarygin (U.S.S.R.); **100 plus Kg. :** Soslan Andiev (U.S.S.R.).

Greco-Roman

48 Kg.: Alexey Shumakov (U.S.S.R.); **52 Kg. :** Vitaly Konstantinov (U.S.S.R.); **57 Kg. :** Pertti Ukkola (Finland); **62 Kg. :** Kazimier Lipien (Poland); **68 Kg. :** Suren Nalbandyn (U.S.S.R.); **74 Kg. :** Anatolyi Bykov (U.S.S.R.); **82 Kg. :** Momir Petkovic (Yugoslavia); **90 Kg. :** Valery Rezantsev (U.S.S.R.); **100 Kg.:** Nikolai Bolboshin (U.S.S.R.); **100 plus Kg.:** Alexander Kolchinski (U.S.S.R.).

WEIGHTLIFTING (1976)

Winner and weight (kg.) respectively :

Flyweight : Alexander Voronin (U.S.S.R.), 242·5; **Bantam weight :** Narair Nuri Kyan (Bulgaria), 262·5; **Feather weight :** Nikolai Kolesnikov (U.S.S.R), 285·0; **Light weight :** Zbigniew Kaozmarek (Poland), 307·5; **Middle weight :** Yordan Mitkov (Bulgaria), 335·0; **Light Heavy weight :** Valeri Shary (U.S.S.R.), 365; **Middle Heavy weight :** David Rigert (U.S.S.R.), 382·5; **Heavy weight :** Valentin Khristov (Bulgaria), 404; **Super Heavy weight :** Vasili Alexeev (U.S.S.R.), 440.

HANDBALL (1976)

Winner : Men : U.S.S.R. ; *Women :* U.S.S.R.

BASKETBALL (1976)

Winners : Men : U.S.A. ; *Women :* U.S.S.R.

VOLLEYBALL (1976)

Winners : Men : Poland ; *Women :* Japan.

SHOOTING (1976)

Winner : (Country) and points scored respectively.

Free Pistol : Uwe Potteck (E. Germany), 573; **Rapid Fire Pistol :** Norbert Klaar (G.D.R.), 597; **Small Bore Rifle :** (Prone position) : Karlheinz Smieszek (F.R.G.), 599; (3 positions) : Lanny Bassham (U.S.A.), 1162; **Moving Target :** Alexander Gazov (U.S.S.R.), 579; **Trap :** Donald Haldeman (U.S.A.), 190; **Skeet :** Josef Panacek (Czechoslovakia), 198.

BOXING (1976)

Light Fly weight : Jorge Hernandez (Cuba); **Fly weight :** Leo Randolph (U.S.A.); **Bantam weight** Gu Yong Jo (N. Korea); **Light weight :** Howard Davies (U.S.A.); **Light Welter weight :** Ray Leonard (U.S.A.); **Welter weight :** Jochen Bachfeld (G.D.R.); **Light Middle weight :** Jerzy Rybicki (Poland); **Middle weight :** Michael Spinks (U.S.A.); **Light Heavy weight :** Leon Spinks (U.S.A.); **Heavy weight :** Teofilo Stevenson (U.S.A.).

CYCLING (1976)

100KM Team Time Trial: U.S.S.R. Antoly Chukanov, Valury Chaplygin, Vladimir Kaminsky, Aavo Pikkuus; **1,000 M Time Trial :** Klaus-Jurgen Grunke (G.D.R.);

Sprint : Anton Tkac (Czechoslovakia) ; **Individual Road Race :** Bernt Johansson (Sweden) ; **4000 M. Team Pursuit :** W. Germany ; **4000 M. Individual :** Gregor Braun (W. Germany) ; **1000 M. Men :** Sergej Petrenko [illegible]

FENCING (1976)

Men

Foil Team : W. Germany ; **Foil Individual :** Fabio Dal Zotto (Italy) ; **Sabre Team :** U.S.S.R. ; **Sabre Individual :** Victor Krovopouskov (U.S.S.R.) ; **Epee Team :** Sweden ; **Epee Individual :** Alexander Pusch (W. Germany) ; **Epee Team :** W. Germany.

Women

Foil Team : U.S.S.R. ; **Foil Individual :** Ildiko Schwaczenberger (Hungary).

ROWING (1976)

Winner & Country respectively.

Men

Single Sculls : Pertti Johannes Karppinen (Finland) : **Coxed Pairs :** East Germany ; **Coxless Pairs:** Jorg and Bernd Landvoigt (E. Germany) ; **Double Sculls :** Frank and Arf Hansen (Norway) : **Four Sculls :** G.D.R. ; **Coxed Fours :** U.S.S.R. ; **Coxless Fours :** E. Germany ; **Eights :** G.D.R.

Women

Single Scull : Christine Scheibilch (G.D.R.) ; **Double Sculls :** Svetla Otzetova, Zdravka Yardanova (Bulgaria) ; **Coxless Pairs :** Siika Kelbetcheva, Stoyanka Grouitecheva (Bulgaria) ; **Coxed Fours :** G.D.R. ; **Coxless Fours :** G.D.R. ; **Coxed Eights :** G.D.R.

CANOEING (1976)

Winner and Country respectively.

Women

Kayak Singles (500 M.) : Carola Zirzov (G.D.R.) ; **Kayak Doubles (500 M.) :** Nina Popova and Galina Kreft (U.S.S.R.).

Men

Kayak Singles (500 M.) : Vasile Diba (Rumania) ; **Kayak Doubles (500 M.) :** Joachim Mattern and Bernd Ulbricht (G.D.R.) ; **Canadian Singles (500 M.) :** Aleksander Rogov (U.S.S.R.) ; **Canadian Doubles (500 M.) :** Sergej Petrenko and Aleksander Vinogradov ; **Kayak Singles (1000 M.) :** Rudiger Helm (G.D.R.) ; **Kayak Doubles (1000 M.):** Sergey Nagorny and Vladmir Romanovsky (U.S.S.R.) ; **Kayak Fours (1000 M.) :** Sergey Chuhrev, Aleksander Degtriav, Yuriy Filatov, Vladimir Morozov , **Canadian Singles (1000 M.) :** Matija Ljubek (Yugoslavia) : **Canadian Doubles (1000 M.) :** Sergej Petrenko, Aleksander Vinogradov.

OLYMPIC FOOTBALL

Year and winner respectively : 1912 Great Britain ; 1920 Belgium : 1924 Uruguay : 1928 Uruguay ; 1936 Italy ; 1948 Sweden ; 1952 Hungary ; 1956 Soviet Union ; 1960 Yugoslavia ; 1964 Hungary ; 1968 Hungary ; 1972 Poland ; 1976 G.D.R.

WORLD CUP SOCCER

The Jules Rimett Cup : 1930 Uruguay ; 1934 Italy ; 1938 Italy ; 1950 Uruguay ; 1954 W. Germany ; 1958 Brazil ; 1962 Brazil ; 1966 England ; 1970 Brazil ; 1974 West Germany ; 1978 Argentina.

NATIONAL FOOTBALL

Santosh Trophy : Year and winner respectively : 1953 Bengal ; 1954 Bombay ; 1955 Bengal ; 1956 Hyderabad : 1957 Hyderabad ; 1958 Bengal : 1959 Bengal ; 1960 Services ; 1961 Railways ; 1962 Bengal ; 1963 Maharashtra ; 1964 Bengal ; 1965 (not played) ; 1966 Andhra Pradesh ; 1967 Mysore ; 1968 Mysore ; 1969 Bengal ; 1970 Punjab ; 1971 Bengal ; 1972 Bengal ; 1973 Kerala ; 1974 Punjab ; 1975 Bengal ; 1976 Bengal ; 1977 Bengal.

Rovers Cup : Year and winner respectively : 1953 Hyderabad Police ; 1954 Hyderabad Police ; 1955 Mohun Bagan ; 1956 Mohamedan Sporting ; 1957 Hyderabad Police ; 1958 Caltex ; 1959 Mohamedan Sporting ; 1960 Andhra Pradesh Police ; 1961 E.M.E., Secunderabad ; 1962 East Bengal — Andhra Pradesh Police ; 1963 Andhra Pradesh Police ; 1964 Bengal Nagpur Railway ; 1965 (not held) ; 1966 Mohun Bagan ; 1967 East Bengal ; 1968 Mohun Bagan ; 1969 East Bengal : 1970 Mohun Bagan ; 1972 East Bengal and Mohun Bagan ; 1973 East Bengal ; 1974 Dempo S.C. ; 1975 East Bengal Club, 1976 Mohun Bagan ; 1977 Mohun Bagan.

I. F. A. Shield: Year and winner respectively : 1954 Mohun Bagan ; 1955 Rajasthan S.C. ; 1956 (not held) ; 1957 Mohamedan Sporting ; 1958 East Bengal ; 1959 Abandoned ; 1960 Mohun Bagan ; 1961 Mohun Bagan ; 1962 Mohun Bagan ; 1963 Bengal Nagpur Railway ; 1964 East Bengal ; 1965 (not held) ; 1966 Mohun Bagan ; 1967 East Bengal — Mohun Bagan ; 1968 Mohun Bagan — Mohamedan Sporting ; 1969 (not held) ; 1970 East Bengal ; 1971-1972 (not held) ; 1973 East Bengal ; 1974 East Bengal ; 1975 East Bengal Club ; 1976 Mohun Bagan & East Bengal ; 1977 Mohun Bagan.

Durand Cup : Year and winner respectively : 1953 Mohun Bagan ; 1954 Hyderabad Police ; 1955 Madras Regimental Centre ; 1956 East Bengal ; 1957 (not held) ; 1958 (not held) ; 1959 Mohun Bagan ; 1960 East Bengal ; 1961 Andhra Pradesh Police ; 1962 (not held) ; 1963 Mohun Bagan ; 1964 Mohun Bagan ; 1965 (not held) ; 1966 Gorkha Brigade ; 1967 East Bengal ; 1968 Border Security Force ; 1969 Gorkha Brigade ; 1970 East Bengal ; 1971 (not played) ; 1972' East Bengal ; 1973 Border Security Force ; 1974 Mohun Bagan ; 1975 J. C. T. Mills (Phugwara); 1976 J.C.T. Mills (Phugwara) & B.S.F. (Jullundur) ; 1977 Mohun Bagan.

TENNIS

Davis Cup : Year and winner respectively : 1900 U.S. ; 1902 U.S. ; 1903 British Isles ; 1904 British Isles ; 1905 British Isles ; 1906 British Isles ; 1907 to 1909 Australia ; 1911 Australia ; 1912 British Isles ; 1913 U.S. ; 1914 Australia ; 1919 Australia ; 1920 to 1926 U.S. ; 1927 to 1932 France ; 1933 to 1936 G.B. ; 1937 38 U.S. ; 1939 Australia ; 1946 to 1949 U.S. ; 1950 to 1953 Australia ; 1954 U.S. ; 1955 to 1957 Australia ; 1958 U.S. ; 1959 to 1962 Australia ; 1963 U.S. ; 1964 to 1967 Australia ; 1968 to 1972 U.S. ; 1973 Australia ; 1974 South Africa (by default) ; 1975 Czechoslovakia ; 1976 Sweden ; 1977 Australia.

OLYMPIC HOCKEY

Year and winner respectively : 1908 Great Britain ; 1920 Great Britain ; 1928 India ; 1932 India ; 1936 India ; 1948 India ; 1952 India ; 1956 India ; 1960 Pakistan ; 1964 India ; 1968 Pakistan ; 1972 W. Germany ; 1976 New Zealand.

NATIONAL HOCKEY

Rangaswamy Cup : Year and winner respectively : 1953 Services ; 1954 Madras-Services ; 1955 Services ; 1956 Railways ; 1957 Railways ; 1958 Railways ; 1959 Services ; 1960 Services ; 1961 Railways ; 1962 Railways ; 1963 Railways ; 1964 Punjab ; 1965 (not held) ; 1966 Railways Madras ; 1967 Railways ; 1968 Punjab ; 1969 Punjab Railways ; 1970 Punjab , 1971 Punjab ; 1972

Punjab ; 1973 Services ; 1974 Railways ; 1975 Railways ; 1976 Railways ; 1977 (not played).

Aga Khan Cup : Year and winner respectively : 1953 Lusitanian S.C. ; 1954 Punjab ; 1955 Bombay City Police ; 1956 (not held) ; 1957 Burmah-Shell ; 1958 Northern Railway ; 1959 Punjab Police ; 1960 I.H.F. President's XI ; 1961 Maratha L.I. ; 1962 North Eastern Railway ; 1963 Mohun Bagan ; 1964 Punjab Police ; 1965 (not held) ; 1966 Punjab Police ; 1967 Western Railway ; 1968 Punjab Police ; 1969 (not played) ; 1970 (not played) ; 1971 Indian Air Lines ; 1972–74 (not played) ; 1975 Northern Railway ; 1976 Eastern Railway ; 1977 Tournament Abandoned.

Beighton Cup : Year and winner respectively : 1953 Tata S.C. ; 1954 Western Railway–Uttar Pradesh ; 1955 Services ; 1956 East Bengal ; 1957 Mohun Bagan ; 1958 Corps of Signals ; 1959 Mohun Bagan ; 1960 Central Railway ; 1961 Central Railway ; 1962 Central Railway ; 1963 Mohun Bagan ; 1964 Mohun Bagan–Customs A.C. (Jt. holders) ; 1965 (not held) ; 1966 East Bengal ; 1967 Mohun Bagan ; 1968 (not held) ; 1969 Western Railway ; 1970 Western Railway ; 1971 Mohun Bagan and B.S.F. (Jt. holders) ; 1972 (not held) ; 1973 Mohun Bagan and Indian Hockey Federation Dark Blues (Jt. holders) ; 1974 Mohun Bagan ; 1975 Mohun Bagan ; 1976 Army Supply Corps (Jullundur) ; 1977 Mohun Bagan.

CRICKET

TEST MATCHES : **with England** : 1932 (in England) India lost the only match played by 158 Runs ; 1933–34 (in India) India lost 2 and drew 1 ; 1936 (in England) India lost 2 and drew 1 ; 1946 (in England) India lost 1 and drew 2 ; 1951–52 (in India) India won 1, lost 1 and drew 3 ; 1952 (in England) India lost 3 and drew 1 ; 1959 (in England) India lost 5 ; 1962 (in India) India won 2 and drew 3 ; 1964 (in India) All 5 Tests drawn ; 1967 (in England) India lost all 3 tests ; No matches were held during 1968 to 1970 ; 1971 (in England) India won one and drew two ; 1972 (in India) India won two, lost one, and drew two ; 1974 (in England) India lost all 3 tests ; 1976–77 (in India) India won 1, lost 3 and drew 1.

Australia : 1947 (in Australia) India lost 4 and drew 1 ; 1956 (in India) India lost 2 and drew 1 ; 1959–60 (in India) India won 1, lost 2 and drew 2 ; 1964 (in India) India won 1, lost 1 and drew 1 ; 1967–68 (in Australia) India lost all 4 ; 1969–70 (in India) India won 1, lost 3 and drew 1 ; 1977–78 (in Australia) India won 2, lost 3.

West Indies : 1948 (in India) India lost 1 and drew 4 ; 1953 (in West India) India lost 1 and drew 4 ; 1958 (in India) India lost 2 and drew 3 ; 1962 (in West Indies) India lost all 5 ; 1966–67 (in India) India lost 2 and drew 1 ; 1971 (in West Indies) played 5 test matches (India won 1, drew 4) India got rubber ; 1974–75 (in India) played 5 tests (India won 2 and lost 3) ; 1976 (in West Indies) India lost two, won one and drew one.

Pakistan : 1952 (in India) India won 2, lost 1 and drew 3 ; 1954 (in Pakistan) all 5 Tests drawn ; 1960-61 (in India) all 5 Tests drawn.

New Zealand : 1955–56 (in India) India won 2 and drew 3 ; 1965 (in India) India won 1 and drew 3 ; 1968 (in New Zealand) India won 3 and lost 1 ; 1969 (in India) India won 1, lost 1 and drew 2 ; 1970 (in India) India won 1, lost 1, and drew 1 ; 1976 (in New Zealand) India won one, lost one and drew one.

BILLIARDS (1977)

World Amateur Champion : Michael Fereira (India).

RANJI TROPHY
Championship 1934-1977

Year	*Winner*	*Runner-up*
1934-35	Bombay	Northern India
1935-36	Bombay	Madras
1936-37	Nawanagar	Bengal
1937-38	Hyderabad	Nawanagar
1938-39	Bengal	Southern Punjab
1939-40	Maharashtra	United Provinces
1940-41	Maharashtra	Madras
1941-42	Bombay	Mysore
1942-43	Baroda	Hyderabad
1943-44	Western India	Bengal
1944-45	Bombay	Holkar
1945-46	Holkar	Baroda
1946-47	Baroda	Holkar
1947-48	Holkar	Bombay
1948-49	Bombay	Baroda
1949-50	Baroda	Holkar
1950-51	Holkar	Gujarat
1951-52	Bombay	Holkar
1952-53	Holkar	Bengal
1953-54	Bombay	Holkar
1954-55	Madras	Holkar
1955-56	Bombay	Bengal
1956-57	Bombay	Services
1957-58	Baroda	Services
1958-59	Bombay	Bengal
1959-60	Bombay	Mysore
1960-61	Bombay	Rajasthan
1961-62	Bombay	Rajasthan
1962-63	Bombay	Rajasthan
1963-64	Bombay	Rajasthan
1964-65	Bombay	Hyderabad
1965-66	Bombay	Rajasthan
1966-67	Bombay	Rajasthan
1967-68	Bombay	Madras
1968-69	Bombay	Bengal
1969-70	Bombay	Rajasthan
1970-71	Bombay	Maharashtra
1971-72	Bombay	Bengal
1972-73	Bombay	Tamil Nadu
1973-74	Karnataka	Rajasthan
1974-75	Bombay	Karnataka
1975-76	Bombay	Bihar
1976-77	Bombay	Delhi
1977-78	Karnataka	U.P.

DULEEP TROPHY TOURNAMENT

Year	*Winner*	*Runner-up*
1961-62	West Zone	South Zone
1962-63	West Zone	South Zone
1963-64	West Zone South Zone	
1964-65	West Zone	Central Zone
1965-66	South Zone	Central Zone
1966-67	South Zone	West Zone
1967-68	South Zone	West Zone
1968-69	West Zone	South Zone
1969-70	West Zone	North Zone
1970-71	South Zone	East Zone
1971-72	Central Zone	West Zone
1972-73	West Zone	Central Zone
1973-74	North Zone	Central Zone
1974-75	South Zone	West Zone
1975-76	South Zone	North Zone
1976-77	West Zone	North Zone
1977-78	West Zone	North Zone

See Chapter on State Associations for State-wise list of Sports Associations.

CORPORATE GIANTS IN INDIA: 1976-77

(Public and Private Sectors)

Rank	Name of Company	Total assets (Rs. Million)	
1.	Food Corpn. of India	24,109	G
2.	Bokaro Steel Ltd.	13,079	G
3.	Hindustan Steel Ltd.	12,616	G
4.	Fertilizer Corpn. of India Ltd.	11,497	G
5.	Bharat Heavy Electricals Ltd.	8,715	G
6.	Indian Oil Corpn. Ltd.	7,076	G
7.	Shipping Corpn. of India Ltd.	6,952	G
8.	Oil & Natural Gas Commission	5,267	G
9.	Central Coalfields Ltd.	4,063	G
10.	Hindustan Aeronautics Ltd.	3,974	G
11.	Tata Iron & Steel Co. Ltd.	3,229	
12.	Indian Petrochemicals Corpn. Ltd.	3,220	G
13.	Damodar Valley Corpn. Ltd.	2,912	G
14.	Air India	2,550	G
15.	National Textile Corpn. Ltd.	2,508	G
16.	Tata Engg. & Locomotive Co. Ltd.	2,369	
17.	Heavy Engg. Corpn. Ltd.	2,313	G
18.	Hindustan Copper Ltd.	2,259	G
19.	Bharat Aluminium Co. Ltd.	2,188	G
20.	Bharat Coking Coal Ltd.	2,110	G
21.	State Trading Corpn. of India Ltd.	1,939	G
22.	Minerals & Metals Trading Corpn. of India Ltd.	1,867	G
23.	Indian Airlines	1,815	G
24.	Neyveli Lignite Corpn. Ltd.	1,772	G
25.	National Minerals Devpt. Corpn. Ltd.	1,756	G
26.	Scindia Steam Navigation Co. Ltd.	1,738	
27.	Indian Iron and Steel Co. Ltd.	1,703	G
28.	Western Coalfields Ltd.	1,611	G
29.	Great Eastern Shipping Co. Ltd.	1,610	
30.	Fertilizers & Chemicals Travancore Ltd.	1,483	G
31.	Gwalior Rayon Silk Manufg. (Wvg.) Co. Ltd.	1,436	
32.	Bharat Electronics Ltd.	1,378	G
33.	Mogul Line Ltd.	1,258	G
34.	India Tobacco Co. Ltd.	1,218	
35.	Hindustan Zinc Ltd.	1,217	G
36.	Associated Cement Cos. Ltd.	1,202	
37.	Gujarat State Fertilizer Co. Ltd.	1,182	
38.	Delhi Cloth & General Mills Co. Ltd.	1,170	
39.	Mazagon Dock Ltd.	1,110	G
40.	Hindustan Petroleum Corpn. Ltd.	1,093	G
41.	Indian Telephone Industries Ltd.	1,077	G
42.	Hindustan Machine Tools Ltd.	1,060	G
43.	Bharat Earth Movers Ltd.	989	G
44.	Hindustan Shipyard Ltd.	984	G
45.	Oil India Ltd.	983	G
46.	India Steamship Co. Ltd.	976	
47.	Hindustan Lever Ltd.	967	
48.	Indian Aluminium Co. Ltd.	[illegible]	
49.	Dunlop India Ltd.	[illegible]	
50.	Eastern Coalfields Ltd.	[illegible]	G
51.	Indian Drugs & Pharmaceuticals Ltd.	876	G
52.	Cochin Shipyard Ltd.	829	G
53.	Ahmedabad Mfg. & Calico Ptg. Co. Ltd.	825	
54.	Indian Explosives Ltd.	816	
55.	Calcutta Electric Supply Corpn. Ltd.	788	
56.	Voltas Ltd.	788	
57.	J. K. Synthetics Ltd.	784	
58.	Hindustan Motors Ltd.	771	
59.	Century Spg. & Manufg. Co. Ltd.	749	
60.	Madras Fertilizers Ltd.	722	G
61.	Visvesvaraya Iron & Steel Ltd.	717	G
62.	Garden Reach Shipbuilders & Engineers Ltd.	705	G
63.	Larsen & Toubro Ltd.	693	
64.	Singareni Collieries	660	G
65.	Zuari Agro Chemicals Ltd.	655	
66.	Bharat Heavy Plates & Vessels Ltd.	646	G
67.	Guest Keen Williams Ltd.	638	
68.	Coromandel Fertilisers Ltd.	635	
69.	Ballarpur Paper & Straw Board Mills Ltd.	632	
70.	Union Carbide India Ltd.	630	
71.	Hindustan Aluminium Corpn. Ltd.	630	
72.	Ahmedabad Electricity Co. Ltd.	607	
73.	Engineering Projects India Ltd.	599	G
74.	National Organic Chemical Industries Ltd.	569	
75.	Ashok Leyland Ltd.	566	
76.	Cement Corpn. of India Ltd.	551	G
77.	Rallis India Ltd.	543	
78.	Philips India Ltd.	527	
79.	Tata Power Co. Ltd.	515	
80.	Central Warehousing Corpn.	515	G
81.	Damodar Bulk Carriers Ltd.	512	
82.	Jessop & Co.	511	G
83.	E. I. D. Parry Ltd.	502	
84.	Indian Tube Co. Ltd.	501	
85.	Madura Coats Ltd.	498	
86.	Bharat Petroleum Corpn. Ltd.	497	G
87.	Mahindra & Mahindra Ltd.	466	
88.	East India Hotels Ltd.	459	
89.	ACC-Vickers-Babcock Ltd.	455	
90.	Binny Ltd.	452	
91.	Escorts Ltd.	452	
92.	Mining & Allied Machinery Corpn. Ltd.	449	G
93.	Chowgule Steamship Ltd.	449	
94.	Tata Chemicals Ltd.	444	
95.	Bombay Dyeing & Manufg. Co. Ltd.	443	
96.	Electronics Corpn. of India Ltd.	431	G
97.	Birla Jute Manufg. Co. Ltd.	[illegible]	
98.	Tata Oil Mills Co. Ltd.	[illegible]	
99.	Bombay Suburban Electric Supply Ltd.	[illegible]	

CORPORATE GIANTS IN INDIA (PUBLIC AND PRIVATE SECTORS) : 1976-77—(*Contd.*)

Rank	Name of Company	Total assets (Rs. Million)	
100.	Siemens India Ltd.	431	
101.	Burn Standard Co. Ltd.	427	G
102.	Engineering Construction Corpn. Ltd.	425	
103.	Nirlon Synthetic Fibres & Chemicals Ltd.	414	
104.	Brooke Bond India Pvt. Ltd.	412	
105.	Orient Paper Mills Ltd.	403	
106.	NGEF Ltd.	403	G
107.	Ratnakar Shipping Co. Ltd.	402	
108.	Modi Rubber Ltd.	401	
109.	Standard Mills Co. Ltd.	387	
110.	Tata-Finlay Ltd.	382	
111.	Dempo Steamships Ltd.	380	
112.	South India Shipping Corpn. Ltd.	374	
113.	Madras Rubber Factory Ltd.	373	
114.	Kirloskar Oil Engines Ltd.	372	
115.	Mafatlal Industries Ltd.	371	
116.	Premier Automobiles Ltd.	368	
117.	Indian Dairy Corpn.	367	G
118.	Bihar Alloy Steels Ltd.	365	
119.	Jiyajeerao Cotton Mills Ltd.	364	
120.	National Rayon Corpn. Ltd.	364	
121.	Caltex Oil Refining (India) Ltd.	353	G
122.	Godrej & Boyce Manufg. Co. Pvt. Ltd.	349	
123.	Mafatlal Fine Spg. & Manufg. Co. Ltd.	348	
124.	General Electric Co. of India Ltd.	347	
125.	Motor Industries Co. Ltd.	344	
126.	National Small Industries Corpn. Ltd.	336	G
127.	International Airport Authority of India	329	G
128.	Kesoram Industrial Cotton Mills Ltd.	327	
129.	Metal Box Co. of India Ltd.	326	
130.	Projects & Equip. Corpn. of India Ltd.	325	G
131.	Firestone Tyre & Rubber Co. of India Pvt. Ltd.	323	
132.	Madras Refineries Ltd.	323	G
133.	Bata Shoe Co. Pvt. Ltd.	322	
134.	International Tractor Co. of India Ltd.	322	
135.	Mahindra Ugine Steel Co. Ltd.	322	
136.	Hydro Carbons India Ltd.	321	G
137.	Glaxo Laboratories (India) Ltd.	318	
138.	Mukand Iron and Steel Works Ltd.	317	
139.	Ceat Tyres of India Ltd.	316	
140.	Walchandnagar Industries Ltd.	313	
141.	Indian Oxygen Ltd.	312	
142.	Baroda Rayon Corpn. Ltd.	309	
143.	Rohtas Industries Ltd.	308	
144.	Hindustan Cables Ltd.	308	G
145.	Crompton Greaves Ltd.	305	
146.	Alkali & Chemicals Corpn. of India Ltd.	305	
147.	Textile Machinery Corpn. Ltd.	302	
148.	Straw Products Ltd.	292	
149.	Instrumentation Ltd.	289	G
150.	Atul Products Ltd.	284	
151.	Hindustan Photo Films Manufg. Co. Ltd.	279	G
152.	W. G. Forge & Allied Industries Ltd.	278	
153.	Greaves Cotton & Co. Ltd.	278	
154.	Andhra Valley Power Supply Co. Ltd.	277	
155.	Seven Seas Transportation Ltd.	276	
156.	Hindustan Organic Chemicals Ltd.	270	G
157.	Shree Ambica Steam Navigation Co. Ltd.	270	
158.	Titaghur Paper Mills Co. Ltd.	269	
159.	Hindustan Steel Works Const. Ltd.	264	G
160.	South India Viscose Ltd.	264	
161.	Shaw Wallace & Co. Ltd.	263	
162.	Colour-Chem Ltd.	261	
163.	Hindoostan Spg. & Wvg. Mills Ltd.	260	
164.	Seshasayee Paper & Board Ltd.	259	
165.	MacNeill & Magor Ltd.	258	
166.	Modipon Ltd.	258	
167.	Central Pulp Mills Ltd.	256	
168.	Indian Dyestuff Industries Ltd.	255	
169.	Goodyear India Ltd.	252	
170.	Godrej Soaps Priv. Ltd.	250	
171.	Tinplate Co. of India Ltd.	249	
172.	Hindustan Construction Co. Ltd.	246	
173.	Modi Spg. & Wvg. Mills Co. Ltd.	244	
174.	Renusagar Power Co. Ltd.	243	
175.	Andhra Pradesh Pulp & Paper Mills Ltd.	242	
176.	Kamani Engg. Ltd.	242	
177.	Bharat Pumps & Compressors Ltd.	242	G
178.	Indian Organic Chemicals Ltd.	238	
179.	Pfizer Ltd.	238	
180.	Swadeshi Cotton Mills Co. Ltd.	238	
181.	Madras Aluminium Co. Ltd.	236	
182.	National Machinery Mfrs. Ltd.	236	
183.	India Tourism Devpt. Corpn. Ltd.	235	G
184.	Chemicals & Fibres of India Ltd.	231	
185.	Kirloskar Bros. Ltd.	228	
186.	Polyolefins Industries Ltd.	226	
187.	India Cements Ltd.	226	
188.	Jute Corpn. of India Ltd.	225	G
189.	WIMCO Ltd.	224	
190.	Indian Cable Co. Ltd.	221	
191.	Bharat Commerce & Industries Ltd.	220	
192.	Tata Hydro-Electric Power Supply Co. Ltd.	219	
193.	West Coast Paper Mills Ltd.	219	
194.	Bharat Forge Co. Ltd.	219	
195.	National Newsprint & Paper Mills Ltd.	216	G
196.	Ciba-Geigy of India Ltd.	213	
197.	Garware Nylons Ltd.	212	
198.	Raymond Woollen Mills Ltd.	207	
199.	K. C. P. Ltd.	206	
200.	Bayer (India) Ltd.	205	
201.	Bajaj Auto Ltd.	205	

G — Government Companies.

COMPANY AFFAIRS

As on 30th September 1977, there were 47,986 companies limited by shares at work in the various States and Union Territories of India. Their aggregate paid-up capital was Rs. 101,494·0 million. The Government companies numbered 712 with a paid-up capital of Rs. 73,145·0 million. The balance of 47,274 non-Government companies had a paid-up capital of Rs. 28,349·0 million.

In addition to the companies limited by shares, there were 1,369 companies limited by guarantee at work in the country as on September 30, 1977.

There were also 43 companies with unlimited liability at work in India as on September 30, 1977. All these companies were private investment units. Of these, 13 were registered in Maharashtra State and the rest of 30 companies in the Union Territories.

New Registrations: As many as 1,257 new joint stock companies limited by shares were registered during April-September 1977 with an authorised capital of Rs. 1,372·0 million. During the corresponding period of 1976, the number of such registrations was 1,360 and their authorised capital amounted to Rs. 4,548·0 million.

Among the 1,257 companies registered, there were 11 Government companies with an authorised capital of Rs. 175·0 million and the rest of 1,246 non-Government companies had an authorised capital of Rs. 1,197·0

Non-Government Companies At Work

(Capital in Rs. million)

Year ended	Public Ltd.		Private Ltd.		Total	
	No.	Paid-up Capital	No.	Paid-up Capital	No.	Paid-up Capital
31-3-71	6,600	18,620·0	23,547	4,871·0	30,147	23,491·0
31-3-72	6,728	18,870·0	25,532	5,089·0	32,260	23,959·0
31-3-73	6,872	19,269·0	27,660	5,320·0	34,532	24,589·0
31-3-74	7,184	19,691·0	30,749	5,731·0	37,933	25,422·0
31-3-75	7,436	20,151·0	33,795	6,150·0	41,231	26,301·0
31-3-76	7,626	20,668·0	36,212	6,499·0	43,838	27,147·0
31-3-77	7,746	20,851·0	38,409	6,839·0	46,155	27,690·0
30-9-77	7,821	21,339·0	39,453	7,010·0	47,274	28,349·0

State-wise Distribution of Government Companies as on 31st March 1977

(Capital in Rs. million)

States/Union Territories	Public Ltd.		Private Ltd.		Total	
	No.	Paid-up Capital	No.	Paid-up Capital	No.	Paid-up Capital
Andhra Pradesh	15	316·0	25	1,689·0	40	2,005·0
Assam	6	40·0	18	468·0	24	508·0
Bihar	3	8·0	29	18,262·0	32	18,270·0
Gujarat	21	121·0	6	1,994·0	27	2,115·0
Haryana	2	11·0	5	13·0	7	24·0
Himachal Pradesh	6	33·0	6	148·0	12	181·0
Jammu & Kashmir	2	3·0	9	272·0	11	275·0
Karnataka	22	207·0	32	2,570·0	54	2,777·0
Kerala	19	983·0	44	638·0	63	1,621·0
Madhya Pradesh	4	82·0	12	140·0	16	222·0
Maharashtra	21	569·0	36	2,563·0	57	3,132·0
Nagaland	1	17·0	2	304·0	3	321·0
Orissa	17	314·0	17	110·0	34	424·0
Punjab	4	12·0	2	3·0	6	15·0
Rajasthan	5	82·0	9	594·0	14	676·0
Tamil Nadu	33	851·0	24	2,272·0	57	3,123·0
Uttar Pradesh	46	796·0	36	456·0	82	1,252·0
West Bengal	20	796·0	37	4,310·0	57	5,107·0
Chandigarh	12	18·0	21	313·0	33	331·0
Delhi	6	583·0	42	28,743·0	48	29,326·0
Goa, Daman & Diu	5	13·0	1	—	6	13·0
Manipur	—	—	3	16·0	3	16·0
Meghalaya	1	64·0	6	11·0	7	75·0
Pondicherry	—	—	2	10·0	2	10·0
Tripura	2	—	3	21·0	5	21·0
Arunachal Pradesh	—	—	1	—	1	—
Total	273	5,919·0	428	65,920·0	701	71,839·0

million. The 11 Government companies consisted of 7 public limited and 4 private limited companies having an authorised capital of Rs. 80·0 million and Rs. 95·0 million respectively. The 1,246 non-Government companies consisted of 96 public limited and 1,150 private limited companies with an authorised capital of Rs. 447·0 million and Rs. 750·0 million respectively.

During April-September 1977, 15 companies limited by guarantee were also registered. No new companies with unlimited liability were registered during this period.

Liquidations : As on November 30, 1977, there were 3,272 companies in liquidation. Out of the total number of companies in liquidation, nearly 59 per cent were under the charge of voluntary liquidators.

During the 6-month period ended September 1977, 127 companies limited by shares with an aggregate paid-up capital of Rs. 38 million went into liquidation. During the corresponding period of last year, 157 such companies with paid-up capital of Rs. 24 million ceased to work.

All the 127 companies which ceased to work were non-Government companies (21 public limited and 106 private limited companies).

Capital Raised : During the period April-September 1977, the joint stock companies limited by shares increased their paid-up capital by Rs. 2,002 million either by way of fresh capital raised by newly registered companies or by way of additional capital raised by existing companies. Of this, the share of Government companies was Rs. 1,306 million and that of non-Government companies Rs. 696 million.

As at the end of March 1977, 482 foreign companies were at work in the country. After taking into consideration the newly established branches and branches which were closed down, the total number of foreign companies at work as on September 30, 1977 were 477.

Distribution of Foreign Companies* and Their Country of Origin as on 31st March 1977

Country of origin	1973	1974	1975	1976	1977
United Kingdom	320	319	301	277	276
U.S.A.	88	88	81	80	81
Japan	17	21	20	20	20
West Germany ..	12	12	12	11	11
Pakistan ..	12	6	6	6	6
Switzerland ..	11	11	9	8	8
France	8	8	7	8	8
Canada	7	7	7	6	6
Netherlands ..	5	6	7	7	7
Other countries	58	62	60	58	59
TOTAL ..	538	540	510	481	482

*As defined under Sec. 591 of the Companies Act.

State-wise Distribution of non-Government Companies as on 31st March 1977

(Capital in Rs. million)

States/Union Territories	Public Ltd.		Private Ltd.		Total	
	No.	Paid-up Capital	No.	Paid-up Capital	No.	Paid-up Capital
Andhra Pradesh	221	678·0	1,141	217·0	1,362	895·0
Assam	102	354·0	523	85·0	625	439·0
Bihar	111	225·0	610	99·0	721	324·0
Gujarat	348	1,668·0	1,930	763·0	2,278	2,431·0
Haryana	77	134·0	317	52·0	394	186·0
Himachal Pradesh ..	14	31·0	105	08·0	119	39·0
Jammu & Kashmir ..	12	13·0	116	18·0	128	31·0
Karnataka	318	737·0	1,606	200·0	1,924	937·0
Kerala	372	455·0	1,023	115·0	1,395	570·0
Madhya Pradesh ..	127	478·0	515	147·0	642	625·0
Maharashtra	1,262	6,417·0	9,106	1,847·0	10,368	8,264·0
Nagaland	1	—	8	1·0	9	1·0
Orissa	61	238·0	280	15·0	341	253·0
Punjab	93	134·0	1,119	146·0	1,212	280·0
Rajasthan	130	213·0	612	130·0	742	343·0
Tamil Nadu	783	1,953·0	3,220	567·0	4,003	2,520·0
Uttar Pradesh	317	697·0	1,792	263·0	2,109	960·0
West Bengal	2,814	5,239·0	8,919	1,180·0	11,733	6,419·0
Chandigarh	25	20·0	129	14·0	154	34·0
Delhi	514	1,051·0	4,698	790·0	5,482	1,841·0
Goa, Daman & Diu ..	21	99·0	234	168·0	255	267·0
Manipur	2	—	4	—	6	—
Meghalaya	12	09·0	44	2·0	56	11·0
Pondicherry	8	08·0	71	11·0	79	19·0
Tripura	—	—	7	—	7	—
Andaman & Nicobar ..	—	—	4	—	4	—
Dadra & Nagar Haveli ..	—	—	5	1·0	5	1·0
Arunachal Pradesh ..	1	—	—	—	1	—
Mizoram	—	—	1	—	1	—
TOTAL ..	7,746	20,851·0	38,409	6,839·0	46,155	27,690·0

Industrial Pattern of Government & Non-Government Companies as on 31st March 1977

(Capital in Rs. million)

Industrial Classification	Government Companies						Non-Government Companies					
	Public Ltd.		Private Ltd.		Total		Public Ltd.		Private Ltd.		Total	
	No.	Paid-up Capital	No.	Paid-up Capital	No.	Paid-up Capital	No.	Paid-up Capital	No.	Paid-up Capital	No.	Paid-up Capital
Agriculture & Allied Activities	17	99·0	39	402·0	56	501·0	555	573·0	1,037	176·0	1,592	749·0
Mining & Quarrying	10	230·0	32	9,748·0	42	9,978·0	283	652·0	761	260·0	1,044	912·0
Processing & Manufacture—Foodstuffs, Textiles, Leather & Products thereof	50	564·0	72	1,984·0	122	2,548·0	1,305	4,827·0	3,605	1,181·0	4,910	6,008·0
Processing & Manufacture — Metals Chemicals & Products thereof ..	77	2,615·0	89	30,373·0	166	32,988·0	1,949	8,637·0	10,894	1,914·0	12,843	10,551·0
Processing & Manufacture — Not elsewhere classified ..	36	1,045·0	37	2,856·0	73	3,901·0	890	2,698·0	4,398	647·0	5,288	3,345·0
Construction & Utilities	10	94·0	28	1,156·0	38	1,250·0	255	694·0	919	135·0	1,174	829·0
Commerce (Trade & Finance)	38	719·0	67	2,446·0	105	3,165·0	1,920	2,095·0	11,643	1,885·0	13,563	3,980·0
Transport, Communication & Storage	12	170·0	10	548·0	22	718·0	227	448·0	1,936	221·0	2,163	669·0
Community & Business Services ..	12	352·0	43	16,372·0	55	16,724·0	164	83·0	1,476	174·0	1,640	257·0
Personal & Other Services	11	31·0	11	35·0	22	66·0	198	144·0	1,740	246·0	1,938	390·0
TOTAL ..	273	5,919·0	428	65,929·0	701	71,839·0	7,746	20,851·0	38,409	6,839·0	46,155	27,690·0

PUBLIC SECTOR

THE initial thrust of public sector in India made a valuable contribution to the economic life of the country. Its enormous growth, besides promoting a strong industrial base, has also provided infra-structural facilities to the economy.

Public sector acounted for—just about 3 per cent of the total productive capital employed in the organised industry in 1951 and now accounts (as on 1st April, 1977) for more than half of the total investment in the entire field of the organised industry. At the beginning of 1977, total investments of the Central Government undertakings (other than departmental projects) amounted to Rs. 110,970 million compared to just Rs. 290 million in 1951. Table I gives a broad idea of the growth of investments in public sector undertakings from Plan to Plan.

The growth of the public sector enterprises has been truly phenomenal. At the beginning of the First Five-Year Plan, there were only five units in the public sector and investment in these amounted to Rs. 290 million. This has increased to Rs. 110,970 million and the number of enterprises have increased from five in 1951 to 145 in January 1977. Of the total investments mentioned above, paid up capital accounts for Rs. 54,130 million and long-term loans Rs. 56,840 million.

The largest investment is in Hindustan Steel Ltd. which is the biggest single project in terms of investment not only in the public sector but in the country as a whole.

TABLE I

	Total investment (Rs. million)	Number of enterprises
At the commencement of the First Five-Year Plan (1-4-1951)	290	5
At the commencement of the Second Five-Year Plan (1-4-1956)	810	21
At the commencement of the Third Five-Year Plan (1-4-1961)	9,530	48
At the end of the Third Five-Year Plan (31-3-1966) ..	24,150	74
At the commencement of the Fourth Five-Year Plan (1-4-1969)	39,020	85
At the commencement of the Fifth Five-Year Plan (1-4-1974)	62,370	122
As on 1-4-1975	72,610	[illegible]
As on 1-4-1976	89,730	[illegible]
As on 1-4-1977	110,970	145

Steel Authority of India as a holding company accounts for an investment of Rs. 22,170 million but investments in SAIL are reinvested in the subsidiaries like Hindustan Steel Ltd., Bokaro Steel Ltd., National Mineral Development Corpn., Salem Steel Ltd., Hindustan Steel Works Construction Ltd., Mettallurgical and Engineering Consultants (India) Ltd., Metal Scrap Trade Corpn. Ltd., SAIL International Ltd., and Bolani Ores Ltd. Similarly investments in Coal India Ltd. are reinvested in the five subsidiaries. The names of the first 10 enterprises (excluding SAIL and Coal India Ltd.) in order of investment as on 31st March, 1977 are given in Table II.

The investment in different sectors of the public sector in India at the end of 1976–77 is given in Table III. It gives the distribution of investment group-wise, including the investments in enterprises under construction.

In 1976-77, the total turnover of all the 145 public sector enterprises was of the order of Rs. 145,400 million. The gross profits of these undertakings amounted to Rs. 10,540 million in 1976-77 compared to Rs. 6,680 million in the previous year for 121 units. Gross profits as a percentage of net sales increased from 6·3 per cent to 7·9 per cent and there was also a notable improvement in the financial performance of most of these enterprises.

TABLE II

		Total investment at the end of March 1977 (Rs. million)
1.	Bokaro Steel Ltd.	13,413·8
2.	Hindustan Steel Ltd.	12,090·3
3.	Fertilizer Corpn. of India Ltd.	11,099·5
4.	Shipping Corpn. of India	5,032·3
5.	Food Corpn. of India Ltd.	4,290·1
6.	Oil & Natural Gas Commission	4,206·4
7.	Central Coalfields Ltd.	4,031·8
8.	Heavy Engineering Corpn.	3,065·5
9.	Bharat Heavy Electricals Ltd.	2,967·5
10.	Bharat Coking Coal Ltd.	2,637·7

TABLE III THE INVESTMENT AT THE END OF 1976-77 IN DIFFERENT SECTORS

(Rs. million)

	Paid-up Capital	Loans & Advances	Total Credit
1. Undertakings under construction	3,488·6	1,832·4	5,321·0
2. Enterprises Producing & Selling Goods :			
Steel	15,847·2	12,795·9	28,643·1
Minerals & Metals other than coal	2,593·2	3,036·0	5,629·2
Coal	6,512·0	6,258·9	12,770·9
Petroleum	3,751·4	2,737·7	6,489·1
Chemicals & Pharmaceuticals	10,460·4	7,776·4	18,236·8
Heavy Engineering	3,807·7	4,230·7	8,038·4
Medium & Light Engineering	979·7	1,178·1	2,157·8
Transport Equipment	1,415·5	1,938·6	3,354·1
Consumer goods	357·4	450·8	808·2
Agro-based Enterprises	84·4	30·4	114·9
3. Service Enterprises :			
Trading & Marketing Services	2,608·4	2,668·9	5,277·3
Transportation Services	1,019·9	8,313·0	9,332·9
Contracts & Construction Services	225·3	155·9	381·2
Industrial Dev. & Technical Consultancy Services	11·4	27·2	38·6
Development of Small Industries	95·0	367·6	462·6
Tourist Services	138·2	63·0	201·2
Financial Services	735·0	2,972·8	3,707·8
	54,130·7	56,834·4	110,965·1

SOME CENTRAL GOVERNMENT ENTERPRISES

FOLLOWING list shows the names of Central Government enterprises, with the year of incorporation and classified according to the ministries under which they fall. Further details of some Central and State Corporations and undertakings follows this list.

Ministry of Agriculture & Irrigation

Name	Year of incorporation/registration
Andaman Plantation Corpn.	†
Banana & Fruit Development Corpn. Ltd.	1964
Cattle-cum-Dairy Corpn.	†
Central Fisheries Corpn. Ltd.	1965
Central Warehousing Corpn.	1956
Food Corpn. of India	1965
Indian Dairy Corpn.	1971
Kerala Oil Plantation	†
Modern Bakeries of India Ltd.	1965
National Dairy Dev. Board	1965
National Seeds Corpn. Ltd.	1963
Oil Seed Corpn.	†
Sheep & Wool Dev. Corpn.	†
Slaughter Houses Corpn.	1970
State Agro Industries Corpn.	1972
State Cashewnut Corpn.	†
State Farms Corpn. of India Ltd.	1969

CENTRAL GOVERNMENT ENTERPRISES—(Contd.)

Name	Year of incorporation/registration
State Forest Corpn.	†
State Seed Corpn.	†
Vaccine & Drugs Manufg. Corpn.	†
Ministry of Commerce, Civil Supplies & Co-operation	
Cotton Corpn. of India Ltd.	1970
Export Credit & Guarantee Corpn. Ltd.	1957
Handicrafts & Handloom Export Corpn. Ltd. (Subsidiary of S.T.C.)	1958
Indian Motion Pictures Export Corpn. Ltd. (Subsidiary of S.T.C. in 1967)	1963
Jute Corpn. of India	1971
Minerals & Metals Trading Corpn. of India Ltd.	1963
National Textile Corpn. Ltd.	1968
Projects & Equipment Corpn. of India Ltd.	1971
State Trading Corpn. of India Ltd.	1956
Tea Trading Corpn. of India	1973
Trade Dev. Authority	1971
Ministry of Communications	
Hindustan Teleprinters Ltd.	1960
Indian Telephone Industries Ltd.	1950
Ministry of Defence	
Bharat Dynamics Ltd.	1970
Bharat Earth Movers Ltd.	1964
Bharat Electronics Ltd.	1954
Garden Reach Workshops Ltd. (Control acquired by Govt. in 1960)	1934
Goa Shipyard Ltd. (Subsidiary of Mazagon Dock Ltd.)	1967
Hindustan Aeronautics Ltd.	1964
Mazagon Dock Ltd. (Control acquired by Govt. in 1960)	1934
Mishra Dhatu Nigam Ltd.	†
Praga Tools Ltd. (Control acquired by Govt. in 1959)	1943
Ministry of Energy	
Bharat Coking Coal Ltd.	1970
Coal India Ltd.	1975
Indian Consortium for Power Projects	1970
National Projects Construction Corpn. Ltd.	1957
Neyveli Lignite Corpn. Ltd.	1966
Rural Electrification Corpn. Ltd.	1969
Water & Power Dev. Consultancy Services (India) Ltd.	1969
Ministry of Finance	
Credit & Guarantee Corpn. of India Ltd.	1971
Industrial Reconstruction Corpn. of India Ltd.	1971
Life Insurance Corpn. of India	1956
Ministry of Health and Family Welfare	
Hindustan Latex Ltd.	1966
Ministry of Industry	
A. *Department of Industrial Development*	
Backward Area Dev. Corpn.	†
Bharat Opthalmic Glass Ltd.	1972
Cement Corpn. of India Ltd.	1965
Commercial Vehicle Factory	†
Delhi Small Ind. Dev. Corpn. Ltd.	1970
Hindustan Copper	1969
Hind Cycles Ltd. (acquired by Govt. in 1974)	—
Hindustan Cables Ltd.	1952
Hindustan Paper Corpn. Ltd.	1970
Hindustan Photo Films Manufg. Co. Ltd.	1960

Name	Year of incorporation/registration
Hindustan Salts Ltd.	1958
Industrial Dev. & Rehabilitation Corpn. of India	1972
Instrumentation Ltd.	1964
Leather Dev. Corpn.	†
Mandhar Cement Factory	1970
National Co-operative Ind. Dev. Corpn.	†
National Ind. Dev. Corpn. Ltd.	1954
National Instruments Ltd.	1957
National Newsprint & Paper Mills Ltd.	1947
National Small Industries Corpn. Ltd.	1955
National Textile Corpn. Ltd.	1968
Optical Glass Plant	1960
Precision Tool Factory	†
Sambhar Salts Ltd. (Subsidiary of Hindustan Salts Ltd.)	1964
Tannery & Footwear Corpn. of India Ltd.	1969
Tasar Dev. Corpn.	†
B. *Department of Heavy Industry*	
Bharat Heavy Electricals Ltd.	1964
Bharat Heavy Plates & Vessels Ltd.	1966
Bharat Pumps & Compressors Ltd.	1970
Heavy Electricals (India) Ltd.	1956
Heavy Engineering Corpn. Ltd.	1958
Hindustan Machine Tools Ltd.	1953
Jessop & Co. Ltd.	1967
Machine Tools Corpn. of India Ltd.	1967
Mining & Allied Machinery Corpn. Ltd.	1965
Richardson & Cruddas Ltd. (Control acquired by Govt. in 1973)	—
Scooters India Ltd.	1972
Triveni Structurals Ltd.	1965
Tungabhadra Steel Products Ltd. (acquired by Govt. in 1967)	1960
Ministry of Information & Broadcasting	
Film Finance Corpn. Ltd.	1960
National Film Dev. Corpn.	†
Ministry of Petroleum, Chemicals & Fertilisers	
A. *Department of Petroleum*	
Bharat Refineries Ltd.	1976
Cochin Refineries Ltd.	1963
Engineers (India) Ltd.	1965
Hindustan Petroleum Corpn. Ltd. (Formerly ESSO, control acquired by Govt. in 1974)	—
Indian Oil Corpn. Ltd.	1959
Indian Petrochemicals Corpn. Ltd.	1969
Indo-Burma Petroleum Co. Ltd. (acquired by Govt. in 1970)	1947
Lubrizol India Ltd.	1966
Madras Refineries Ltd.	1965
Oil & Natural Gas Commission	1956
Oil India Ltd.	—
B. *Department of Chemicals & Fertilisers*	
Fertiliser Corpn. of India Ltd.	1961
Fertilizers & Chemicals Travancore Ltd. (Control acquired by Govt. in 1963)	1942
Hindustan Antibiotics Ltd.	1954
Hindustan Insecticides Ltd.	1954
Hindustan Organic Chemicals Ltd.	1960
Indian Drugs & Pharmaceuticals Ltd.	1961
Madras Fertilisers Ltd.	1966
National Fertilizers Ltd.	†
Pyrites, Phosphates & Chemicals Ltd.	1960

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† Undertakings under construction.

Name	Year of incorporation/registration
Ministry of Railways	
Chittaranjan Locomotive Works	1950
Diesel Locomotive Works	1964
Integral Coach Factory	1952
Ministry of Shipping & Transport	
Central Road Transport Corpn. Ltd.	1964
Central Inland Water Transport Corpn. Ltd.	1967
Cochin Shipyard Ltd.	1965
Delhi Transport Corpn.	—
Hindustan Shipyard Ltd.	1952
Mogul Lines Ltd. (Control acquired by Government in 1960)	1938
Shipping Corpn. of India Ltd.	1961
Ministry of Steel & Mines	
A. *Department of Mines*	
Bharat Aluminium Co. Ltd.	1966
Bharat Gold Mines Ltd.	1972
Hindustan Copper Ltd.	1967
Hindustan Zinc Ltd.	1967
Iron Ore Board	1972
Mineral Exploration Corpn. Ltd.	1971
Mining & Allied Machinery Corpn. Ltd.	1965
Sikkim Mining Corpn.	1972
Sukenda Nickel Project	1974
B. *Department of Steel*	
Bokaro Steel Ltd.	1964
Engineering Projects (India) Ltd.	1970
Hindustan Steel Works Construction Ltd.	1964
Hindustan Steel Ltd.	1954
Metal Scrap Trading Corpn. Ltd.	1971
Metallurgical & Engg. Consultants (India) Ltd.	1973
National Mineral Development Corpn. Ltd.	1958
Steel Authority of India Ltd. (SAIL)	1972

Name	Year of incorporation/registration
Ministry of Tourism & Civil Aviation	
A. *Department of Civil Aviation*	
Air India	1953
Indian Airlines	1953
International Airports Authority of India	1972
B. *Department of Tourism*	
Ashoka Hotel Ltd.	1955
Indian Tourism Development Corpn. Ltd.	1965
Janpath Hotels Ltd.	1963
Ministry of Works & Housing and Supply & Rehabilitation	
A. *Department of Works & Housing*	
Hindustan Housing Factory Ltd.	1953
Housing & Urban Development Corpn. Ltd.	1970
National Building Constn. Corpn. Ltd.	1960
B. *Department of Supply & Rehabilitation*	
Rehabilitation Housing Corpn.	†
Rehabilitation Industries Corpn. Ltd.	1959
Department of Atomic Energy	
Electronic Corpn. of India Ltd.	1967
Indian Rare Earths Ltd.	1950
Uranium Corpn. of India Ltd.	1967
Department of Electronics	
Complex for Prod. & R & D of Semi-Conductor Devices	†
Computer Maintenance Corpn.	†
Electronics Trade & Tech.	†
Trans Receivers Prod. Unit	†
Department of Science of Technology	
Central Electronics Ltd.	1974
National Research Dev. Corpn. of India Ltd.	1953
Department of Space	
Indian Scientific Satellite Project	1974

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† Undertakings under construction.

GOVERNMENT OF INDIA UNDERTAKINGS

THE total turnover of 135 running enterprises in the public sector under the charge of various central ministries were 24·4 per cent higher during 1976-77 than the previous year. Against a total turnover of Rs. 116,880 million during 1975–76, the aggregate amount was estimated to be around Rs. 145,420 million during 1976–77. The overall net profit of Rs. 4,761·7 million after meeting all exprenses and providing for depreciation etc. compared favourably with that of the preceding year at Rs. 3,056·5 million.

The Central Government's investment in 145 enterprises total Rs. 139·45 million.

✓**Agricultural Co-op. Marketing Fedn. of India Ltd. (NAFED), National,** Sapna Bldg., 54, East of Kailash, New Delhi 110024.

Sponsored by the Govt. of India & consists of all Co-op. Mktg. Fedns. and Societies, Central Govt. & National Co-op. Devpt. Corpn. Promotes co-op. mktg.; assists its constituents by undertaking exports & imports, inter-State, intra-State & internal trade in agricultural, horticultural and forest produce, farm inputs, agricultural machinery & implements, ensuring fair returns to the farmers; arranges supply of food-grains to deficit areas; processing and storage of food-grains, fresh fruits & vegetables; conducts mkt. research and disseminates information on co-op. mktg. etc. Setting up of fruit & vegetable processing factory in New Delhi and a jute mill in Orissa jointly with Indl. Devpt. Corpn. of Orissa; runs a cold storage & ice factory in New Delhi; Branches at various important sea ports & terminal markets in the country. *Regnl. Branch/Liaison Offices:* 1) Raj ✓Mahal, 84, Veer Nariman Rd., Bombay 400020; 2) 20, British Indian St., Calcutta 700001; 3) 312/313, Linghi Chetty St., Madras 600001; 4) 2423/29, Surekha Bldg., Shradhanand Mrg., Delhi 110006; 5) 14/10-B, Palluruthy Rd., Mattancherry, Cochin 682002; 6) Maniram Dawan Lane, Ulubari, Gauhati 781007; 7) No. 2, IInd Beach, Nagapattinam 611001 (T. Nadu); 8) 42, Budha Nagar, Bhubaneswar 751006; 9) Kothi 160, Sector 19-A, Chandigarh 160019; 10) 5-2-68, Jambagh, Hyderabad 500001; 11) DS-10, Nirala Nagar, Lucknow 226007; 12) Laj Bhawan, Sanyogitaganj Mandi, Indore 452001; 13) Shivaji Rd., Behind Punjab National Bank, Nasik Rd. 422101; 14) Flat No. S-9, 'C' Scheme, Bhawani Singh Rd., Jaipur 302001; 15) Bank Rd., Patna 800001; 16) Agricultural

Machinery Divn. Cold Storage & Tractor-cum-Service Centre, Plots Nos. 7 & 8, Lawrence Rd., Industrial Area, Delhi 110035; 17) Fruits & Vegetables Unit, Shop No. D-392, New Fruit Mkt., Azadpur, Delhi 110033.

Mg. Director : B. D. Dwivedi.

Agricultural Finance Corpn. Ltd., Dhanraj Mahal, Chhatrapati Shivaji Maharaj Marg, Bombay 400039.

Eastern Region Office : Calcutta; *Northern Region Office :* Lucknow; *Branch Offices :* Patna, Kota, Shillong & Surat.

Functions : The Corporation is a consortium of commercial banks. It provides project consultancy services in the field of agricultural project formulation to Central Govt., State Govts., commercial banks and commercial institutions for undertaking techno-economic surveys, pre-investment surveys, project analysis, research and follow-up studies, evaluation and appraisal.

Chairman : V. M. Bhide; *Mg. Director :* Ghulam Ghouse.

Agricultural Refinance Corpn., Shriniketan, Dr. A. Besant Rd., P.B. 6552, Worli, Bombay 400018.

Regional Offices : Central Bank of India Bldg., Lal Darwaja, Ahmedabad 380001; 40, Kempegowda Rd., Post Bag No. 9728, Bangalore 560009; M.P. State Co-op. Bank Bldg., T.T. Nagar, New Market, Main Rd. No. 1, Bhopal 462003; 626, Sahidnagar, Bhubaneswar 751007; Old Reserve Bank of India Bldg., 8, Council House St., Post Box No. 71, Calcutta 700001; Mann Mansion, Main Bank's Square, Sector 17 B, Chandigarh 160017; 5-1-485/487, Jamgagh Rd., Putli Bowli, Hyderabad 500001; Rajasthan State Co-op. Bank Bldg., Nehru Bazar, Jaipur 302003; 10B, Station Rd., Lucknow 226001; Regina Mansion, 8, Second Line Beach, Madras 600001; C/o Reserve Bank of India, South of Gandhi Maidan, Patna 800001; Shri M. Das Bldg., C. K. Rd., Pan Bazar, Gauhati 781001; Bella Vista, Kowdiar Avenue, Trivandrum 695003; C/o Reserve Bank of India, 6, Parliament St., Post Box No. 696, New Delhi 110001.

Consultancy Services : 10B, Station Rd., Lucknow 226001; Old Reserve Bank Bldg., 8, Council House St., Calcutta 700001.

Functions : It is primarily a refinancing agency and its object is to provide financial accommodation to the various special schemes of agricultural development.

Chairman : M. Ramakrishnayya,; *Mg. Director :* M. A. Chidambaram.

Air India (See chapter on Civil Aviation).

Air India Charters Ltd. (See chapter on Civil Aviation).

Andaman and Nicobar Islands Forest & Plantation Devpt. Corpn. Ltd., Port Blair 744101 (Andamans).

Functions : At present the Corpn. is implementing the project report for logging, marketing, forest plantation and natural regeneration in Little Andaman and North Andaman group of Islands. Also proposes to raise plantation and cash crops, establish processing factories and promote wood based industries.

Chairman : S. M. Krishnatry; *Director :* Lalthan Zama.

Artificial Limbs Manufg. Corpn. of India, G. T. Rd., Kanpur 208016. (Under Dept. of Industrial Development, Min. of Industry.)

To mass produce prosthetics, orthotics and rehabilitation aids for the less privileged and physically handicapped.

Chairman : Dr. Balu Sankaran; *Mg. Director :* Maj-Gen. K. Raghunath (Retd.).

Ashoka Hotel, Chanakyapuri, New Delhi 110021. (Five-star de-luxe hotel.)

No. of rooms 485; no. of beds 649. The highest and lowest charge per day : Rs. 1,500 to Rs. 250.

Gen. Manager : P. B. Mathur.

Atomic Reactors, Trombay, Bombay 400071.
(*See* Chapter on "*Atomic Energy*".)

Balmer Lawrie & Co. Ltd., P-4/1, Oil Installation Rd., Paharpur, Calcutta 700043.

Chairman & Mg. Director : A. P. Verma.

Banana & Fruit Development Corpn. Ltd., 5/7, S. S. Iyengar Rd., Venus Colony, Alwarpet, Madras 600018.

It has been set up by the Governments of Tamil Nadu, Andhra Pradesh, Kerala, and Karnataka to promote cultivation and marketing of various horticultural products including export of bananas. Government of India has become the major shareholder. Governments of Orissa, Gujarat, West Bengal, Madhya Pradesh and the Union Territory of Goa have also become members of the Corporation.

Mg. Director : N. D. J. Rao, I.A.S.

Bengal Potteries Ltd., 45, Tangra Rd., Calcutta 600015.

Bharat Aluminium Co., Ltd., *Registered Office :* Punj House, 18, Nehru Place, New Delhi 110024.

The company is involved in constructing and operating the Korba (Madhya Pradesh) aluminium project and planning for export oriented alumina aluminium projects based on bauxite deposits on the East Coast.

Korba Aluminium Project : It consists of a 200,000 tonnes per annum capacity alumina plant, a 100,000 tonnes per annum capacity smelter for production of aluminium metal and facilities for manufacture of aluminium semis. The project has technical assistance from Chemokomplex of Hungary up to the alumina stage and technical and financial assistance from Messrs. Tsvetmetpromexport of the U.S.S.R. for the smelter and fabrication facilities.

Chairman-cum-Mg. Director : A. N. Banerjee.

Bharat Dynamics Ltd., *Regd. Office :* 10-3-310, Masab Tank, Hyderabad 500028.

The Company was established in July 1970 to manufacture sophisticated guided missiles and light precision, mechanical and electronic equipment.

Mg. Director : V. M. Chitale.

Bharat Earth Movers Ltd., Unity Bldgs., J. C. Rd., Bangalore 560002.

It has a railcoach factory at Bangalore manufacturing broad gauge integral coaches of various types and an earth moving equipment factory at Kolar Gold Fields manufacturing wheeled earth moving equipment in collaboration with Messrs. WABCO, U.S.A. and crawler tractors of various types in collaboration with Komatsu Limited, Japan.

Chairman & Mg. Director : G. K. Gokhale; *General Manager,* Railcoach Division : K. T. Sam[illegible]; *General Manager,* Earth Mover Division : Col. M. P. Singh.

Bharat Electronics Ltd., *Registered Offices :* Trade Centre, 29/1, Race Course Rd., Bangalore [illegible] [illegible] *Offices :* P. O. Jalahalli, Bangalore 560013; Bharat Nagar P.O., Ghaziabad 201008; 14, Ramnagar Colony, N[illegible] Rd., Pashan, Pune 411021.

The Bangalore unit manufactures : (i) *Electronic Equipment :* Communication equipment in the HF, VHF and UHF ranges, high power HF SSB and ISB transmitters, high stability communication receivers, medium wave broadcast transmitters upto 100 KW output, television transmitters and studio equipment, fire control radars, functional radars of various types for naval ships, storm and cyclone warning radars, gun control equipment for tanks, 3 KW FM broadcasting transmitters, mini-computers, and computer peripherals and 4 GHz microwave radio relay system. (ii) *Components :* Receiving and transmitting tubes, X-Ray tubes, TV picture tubes, cathode ray tubes, magnetrons, germanium and silicon transistors and diodes, hybrid microcircuits, integrated circuits, ceramic and vacuum capacitors, quartz crystals, crystal filters, transformers and coils and printed circuit boards.

The Ghaziabad unit manufactures : 3-D static and mobile radars, secondary surveillance radars, troposcatter and line of sight microwave equipment, and VHF trans-receivers. The Pune unit is under construction.

Chairman & Mg. Director : C. R. Subramanian.

Bharat Gold Mines Ltd., *Regd. Office :* Suvarna Bhavan, Oorgaum (KGF) 563120, Karnataka.

This public sector undertaking has taken over from April 1, 1972 the assets and liabilities of the Kolar Gold Mining Undertakings.

It becomes the principal gold producing undertaking. The gold production during 1976-77 was 2,204,160 gms. worth Rs. 18·603 million at IMF rates.

Chairman-cum-Mg. Director : P. D. Gupta.

Bharat Heavy Electricals Ltd., *Regd. Office :* 18-20, K. Gandhi Marg, Hindustan Times House, New Delhi 110001.

The Company has under it the following four manufacturing units :—(1) Hardwar (U.P.); (2) Hyderabad (A.P.); (3) Tiruchirapalli (T.N.); (4) Bhopal (M.P.).

All the four plants have gone into production, producing power generating equipment for various important thermal and hydro power stations.

Chairman & Mg. Director : G. P. Warrier; *Gen. Manager* (Hardwar Unit) : K. L. Puri; *Gen. Manager* (Hyderabad Unit) : M. R. Naidu; *Gen. Manager* (Tiruchy Unit) : V. R. Deendayalu; *General Manager* (Bhopal Unit) : F. Haque.

Bharat Heavy Plate and Vessels Ltd., B.H.P.V., P. O. Visakhapatnam 530012, Andhra Pradesh.

The factory produces sophisticated equipment required by the process industry. The equipment manufactured include light, medium and heavy columns for absorption, distillation etc., tanks and pressure storage vessels, heat exchangers, pipe fabrication, vessels with agitators and mixers, technological structures, air and gas separation plants, high pressure vessels, paper plants, evaporators, biological containers, cryogenic storage vessels, etc.

Chairman & Mg. Director : Vacant.

Bharat Leather Corpn. Ltd., Laurie's Hotel Compound, M. Gandhi Rd., Agra 282001.

Chairman : Dr. A. Seetharamiah.

Bharat Ophthalmic Glass Ltd., Lenin Sarani, Durgapur 713210, West Bengal.

Manufactures ophthalmic blanks for spectacle lenses and optical glasses required for Defence and other optical instruments.

Chairman & Mg. Director : K. H. Parikh.

Bharat Petroleum Corpn. Ltd. (See Chapter on "Petroleum Industry" under Bharat Refineries Ltd.).

Bharat Pumps & Compressors Ltd., *Regd. Office :* Naini, Allahabad Dist., Uttar Pradesh.

To cut down imports drastically, the company was established in 1970. It has two projects : one for the production of reciprocating compressors and centrifugal and reciprocating pumps, and the other for the manufacture of high pressure seamless gas cylinders and other seamless tubular bodies.

Chairman : Paul Pothen; *Mg. Director :* K. L. Puri.

Bharat Refractories Ltd. (A subsidiary of Bokaro Steel Plant.)

Biecco Lawrie Ltd., 6, Mayurbhanj Rd., Calcutta 700023. (*Works :* P-43 & P-54, Hide Rd. Extn., Calcutta 700027). *Functions :* Manufactures electric motors upto 250 HP, crane duty motors, bulk oil type LT & HT switchgear upto 11 KV 350 MVA; repair service of electrical rotating machines upto 3,000 HP at 6·6 KV.

Gen. Manager : K. M. Banerjee.

Bihar Industrial and Technical Consultancy Organisation Ltd. (A subsidiary of Industrial Development Bank of India), B.C.I. Bldg., East Gandhi Maidan, Patna 800004, Bihar.

To identify industrial potential through surveys or otherwise; to prepare project profiles, feasibility reports and pre-investments studies about specific industries; to undertake techno-economic appraisal of projects and market research and surveys and to act generally as an industrial, management and financial consultant.

Mg. Director : Dr. S. M. Prasad.

Bokaro Steel Plant, Bokaro Steel City 827011, Dhanbad Dist., Bihar (A subsidiary of Steel Authority of India).

Mg. Director : S. Samarapungvan.

(Refer to the chapter on "Steel Industry").

Bolani Ores Ltd., Chartered Bank Bldg., Calcutta 700001. (A subsidiary of Steel Authority of India).

Chairman : P. K. Paul.

Bongaigaon Petro-Chemicals Ltd., Bongaigaon Dist., Goalpara, Assam.

Braithwaite & Co. Ltd., 5, Hide Rd., Calcutta 700043.

Chairman & Mg. Director : Maj. Gen. R. N. Sen (Retd.).

Bridge & Roof Co. (India) Ltd., 427/1, Grand Trunk Rd., Howrah 711101.

Functions : Complete erection of refineries, fertilizer plants, steel plants, power plants, storage tanks, etc.; fabrication of steel structures, civil engineering constructions and erection of pipelines.

Chairman : A. P. Verma; *Exec. Director :* Dr. P. K. Chaudhuri; *Gen. Manager :* N. Sanyal.

Burn Standard Co. Ltd., 10-C, Hungerford St., Calcutta 700017.

Functions : The Company has two engineering units at Howrah and Burnpur respectively and nine refractory units in different parts of the country. The Company specialises in the manufacture of rail road cars, wagons, die forgings, stamping, pressing, automotive/railway springs, castings, material handling structurals and equipment for the mining industry.

The nine refractory units manufacture fire bricks, insulating bricks, basic bricks and silica bricks.

Chairman & Mg. Director : N. R. Bhargava.

Calcutta Tramways Co. Ltd., 12, R. N. Mukherjee Rd., Calcutta 700001.

Administrator : P. B. Chauduri, I.P.S.

Cashew Corpn. of India Ltd., P. B. 1261, M. Gandhi Rd., Cochin 682011. (Regd. Office : 'Chandralok', 36, Janpath, New Delhi 110001).

Functions : A wholly owned subsidiary of S.T.C., through which imports of raw cashewnuts are now being canalised. It ensures regulated imports for distribution to the export oriented sector of the Cashew Processing Industry at reasonable prices.

(Also see chapter on 'Cashew Industry').

Chairman : B. S. Thacker.

Cement Corpn. of India Ltd., 'Herald House', 5-A, Bahadurshah Zafar Marg, New Delhi 110001.

Functions : To set up cement factories in various parts of the country and to survey and prospect for limestone deposits in the country. The Corporation has three cement plants of annual installed capacity of 200,000 tonnes each working at Mandhar, M.P., Kurkunta, Karnataka and Bokajan, Assam. Construction and erection work is in progress at its new plants being set up at Rajban, H.P., with an annual installed capacity of 200,000 tonnes per annum, Neemuch and Akaltara in M.P., and Yerraguntla in A.P., each with an annual installed capacity of 400,000 tonnes per annum. In addition, the Corporation also offers consultancy services.

(Also see chapter on Cement Industry).

Chairman & Mg. Director : B. V. Raju.

Central Cottage Ind. Corpn. of India Ltd., Janpath, New Delhi 110001.

Central Electronics Ltd., NPL Campus, Hillside Rd., New Delhi 110012. *Factory :* Industrial Area 4, Sahibabad 201005, U.P.

Manufacturing Professional Ferrites (Pot Cores, U Cores, E Cores etc.) and Electro Ceramics (Tubular, disc and feedthru Capacitors, Piezeo Electric Elements, High Alumina Components etc.). Items on production programme; Solid State Displays, Spl. Purpose Electron Tubes, Electronic Systems and Equipment.

Chairman : A. S. Rao ; *Mg. Director :* U. Venkateswarlu.

Central Fisheries Corpn. Ltd., 62, Rose Mary Lane, P. O. Box 86, G.P.O. Howrah 711101.

Central Inland Water Transport Corpn. Ltd., Regd. Office : 4, Fairlie Place, Calcutta 700001.

Branches : 10, Ishakhan Rd., Narayanganj, Bangladesh,

In Assam : M. Gandhi Rd., P.O. Uzanbazar Ghat, Gauhati 781001 ; S. W. Ardfin, P.O. Dhubri, Goalpara Dist., 783301.

Functions : (i) Ship-building, ship repairing and general engineering ; (ii) River transport from Calcutta to Assam via Bangladesh ; (iii) Grain lightering on high seas steamer agents : (iv) Lighterage, river conservancy and dredging.

Chairman-cum-Mg. Director : Sahibzada M. Yusuf Khan.

Central Institute of Plastics Engg. & Tools (Min. of Petroleum), Guindy, Madras 600032

Training in mould making, mould design, mould polishing, plastics processing etc. Short courses in advanced mould design, mould setting and hand operated injection and compression moulding are arranged on the basis of demand from industries. Free consultancy services are also offered to plastics industries. Mould orders with longer delivery, job orders in precision grinding, engraving, die sinking and Plastics moulding are also accepted.

Chairman : Dr. D. Banerjee ; *Director :* M. S. Francis.

Central Road Transport Corpn. Ltd., 4, Fairlie Place, Calcutta 700001.

Functions : To supplement the road transport capacity in the eastern sector of the country. The Corporation has a fleet of about 208 Leyland and TMB trucks. In the western sector the company has to serve the Food Corporation of India for movement of foodgrains, fertilisers and packing materials with 154 "gift trucks" belonging to the Government of India.

Chairman : Cdr. K. Chelliah, VSM ; *Mg. Director :* M. Yusuf Khan.

Central Warehousing Corpn., Deepali, 92, Nehru Place, New Delhi 110024.

Functions : (i) To help storage of agricultural produce and other commodities as are declared to be "Notified Commodities" by the Central Government. (ii) To assist the depositor to secure cheap credit, avoid distress sales and sell his produce as and when the market is favourable to him. (iii) To undertake disinfestation service outside its warehouses and also (iv) to act as agent for the purposes of purchase, sale and distribution of agricultural produce. By the end of March 1978 the total built up capacity owned by the Corporation was 1·59 million tonnes including two cold storages of 600 and 1,200 tonnes capacity at Hyderabad and Calcutta respectively.

State Corpns. :— The State Governments have with the approval of the Central Warehousing Corporation established a Warehousing Corporation in each State.

The 16 S. W. C. had, by the end of December 1977 set up 1,058 war houses and a cold storage with a total storage capacity of 5·00 million tonnes including owned built-up capacity of 1. 58 tonnes.

Chairman : M. N. Bery ; *Mg. Director :* N. S. Sethi.

Chittaranjan Locomotive Works, *Head Office & Works :* Chittaranjan 713331, Burdwan Dist., W. Bengal ; *Calcutta Office :* 4, Chittaranjan Avenue, Calcutta 700013.

Chittaranjan Locomotive Works was set up in 1950 for the production of steam locomotives. With the rolling out of the 60th YG class metre gauge steam locomotive in February 1972 the Works stopped the production of steam locomotives and has now switched over completely to the manufacture of electric and diesel locomotives. The Works had, up to the end of March 1978, produced 3,343 locomotives — steam 2,351, electric (both AC and DC) 652, and diesel 340.

At present Chittaranjan is engaged in the manufacture of AC Mixed Traffic Electric Locomotives, DC Freight Locomotives, AC/DC Dual Current Locomotives and the Diesel Shunting-cum-Shuttle Locomotives.

General Manager : A. K. Mukherjee.

Coal India Ltd., 10, N. Subhas Rd., Calcutta 700001. *Subsidiary Companies :* **Eastern Coalfields Ltd.,** Sanctoria, P.O. Dishergarh 713333, Burdwan Dist., W. Bengal ; **Central Coalfields Ltd.,** Darbhanga House, Ranchi 834001, Bihar ; **Western Coalfields Ltd.,** Bisesar House, Temple Rd., Nagpur 440001, Maharashtra ; **Bharat Coking Coal Ltd.,** Bhuggatdih Bldgs., Jharia, 828111, Dhanbad, Bihar ; **Central Mine Planning & Design Inst. Ltd.,** Gondwana Place, Kanke Rd., Ranchi 834008 ; *Regional Offices :* 32, Shamla Rd., Civil Lines, Bhopal 462001, Madhya Pradesh ; Hotel Waldorf, 16, A. Bunder Rd., Bombay 400005 ; Kannamai Bldg., 122, Mount Rd., Madras 600006 ; Hotel Clerk Avadh, Apt. 20, M. Gandhi Rd., Lucknow 226001 ; 10, Camac St., Calcutta 700016 ; P.O. Margherita 786181, Assam ; SCO 125 216, Sector 17C, Chandigarh 160017 ; Kumud Niwas, Ramdas Rd., Tikrapara, Bilaspur 495001, Madhya Pradesh.

A holding company set up by the Govt. of India to be in overall charge of planning and production of coal mines in India.

Chairman : Lt. Gen. K. S. Garewal, PVSM.

Cochin Refineries Ltd., P. Bag 2, Ambalamugal 682302, Ernakulam Dist. (See Chapter on "Petroleum Industry").

Chairman : A. M. Thomas ; *Mg. Director :* C. Abraham.

Cochin Shipyard Ltd., P. Bag 1653, Cochin 682015

Ship building, ship repairs and allied activities. It went into production on 11-2-1976 when the keel of the first 75,000 DWT bulk carrier was laid.

Chairman-cum-Mg. Director : Vice Admiral N. Krishnan, PVSM, DSC.

Computer Maintenance Corpn. Ltd., Air India Bldg., Nariman Point, Bombay 400021.

Chairman : Prof. R. Narasimhan ; *Mg. Director :* Dr. P. P. Gupta.

Cotton Corpn. of India Ltd., Air India Bldg., 12th Fl., Nariman Point, Bombay 400021.

Functions : Serves as an agency for purchase, sale and equitable distribution of domestic cotton and cotton staple fibre imported from abroad. It exports long staple cotton. (Also see chapter on 'Cotton and Cotton Textiles').

Mg. Director : N. S. Kulkarni.

Credit Guarantee Corpn. of India Ltd., Novelty Chambers, Grant Rd., Bombay 400007.

Functions : Promoted by the Reserve Bank of India. It guarantees loans and other credit facilities extended to (*i*) by scheduled and non-scheduled commercial banks to small traders, farmers and self-employed persons and small borrowers under the Differential Interest Rates Scheme ; (*ii*) by scheduled and non-scheduled commercial banks and State Financial Corporations to small transport and business enterprises and (*iii*) by scheduled commercial banks and certain State and Central co-operative banks to service co-operative societies assisting their members who are engaged in industrial acitivity.

Chairman : M. Ramakrishnayya ; *Manager :* C. S. Subramaniam.

Deposit Insurance Corpn., Novelty Chambers, Grant Rd., Bombay 400007.

Functions : To give a measure of protection to depositors, in particular to small depositors, from the risk of loss of their deposits in the event of a bank's inability to meet its liabilities.

The Corporation provides insurance to the extent of Rs. 20,000 to a depositor in respect of all deposits held by him in an insured bank in the same right and capacity.

Every commercial bank functioning in India and every eligible Co-op. bank functioning in the States of Andhra Pradesh, Jammu & Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Rajasthan, Tripura, West Bengal and the Union Territories of Delhi, Pondicherry, Goa, Daman and Diu to which the Deposit Insurance Scheme has so far been extended, is registered as an insured bank with the Corporation and all its depositors get the protection afforded by the Corporation.

The total number of insured banks at the end of 1977 was 975.

The Corporation has a capital of Rs. 20 million entirely held by the Reserve Bank and a Deposit Insurance Fund of Rs. 627·21 million.

Chairman : Dr. K. S. Krishnaswamy, Dy. Governor of the Reserve Bank of India. *Manager :* V. S. Moharir.

Diesel Locomotive Works, Varanasi 221001, Uttar Pradesh.

This is one of the three production units of the Indian Railways manufacturing diesel engines, main line diesel electric locomotives and heavy duty diesel electric shunters. Upto March 1978, 853 B.G. locomotives of 2,600 HP and 202 M.G. locomotives of 1,350 HP for the Indian Railways and 31 heavy duty diesel electric shunters of 1,400 HP for steel factories were produced besides commissioning 3 diesel generating sets of 1·75 MW capacity at Petrofils Co-op. Ltd., Baroda. Atomic Power Plant, Kalpakkam and a mobile unit at DLW. Seven more such sets were manufactured for Railways and other customers. The export order of 15 locomotives to Tanzania was completed.

General Manager : K. P. Jayaram.

Dredging Corpn. of India Ltd., *Registered Office :* Room No. 528, Transport Bhawan, 1, Parliament St., New Delhi 110001. *Head Office :* Satguru Mansion, 28-2-52B, Yellammathota Junction, Visakhapatnam 530002.

Chairman: Brig. O. P. Narula, AVSM (Retd.); *Mg. Director:* Capt. S. K. Somayajulu.

Electronics Corpn. of India Ltd., Ind. Development Area, Cherlapalli, Hyderabad 500762.

Functions : To manufacture and sell nuclear and sophisticated electronic instruments/systems.

Chairman : Dr. H. N. Sethna ; *Mg. Director :* S. R. Vijayakar.

Electronics Trade & Technology Development Corpn. Ltd., 15/48, Malcha Marg, New Delhi 110021. *Regional Offices :* 6-3-680/B, Bright House, Punjagutta, Hyderabad 500004 ; 8th Flr., Air India Bldg., Nariman Point, Bombay 400021. *Resident Representatives :* 15, Shiv Darshan, Infantry Rd., Bangalore 560001; 225-E, A. Jagdish Chandra Bose Rd., Calcutta 700020 ; Adm. Block, Dr. V. Sarabhai Instronics Estate, Thiruvanmiyoor, Madras 600041 ; *Foreign Offices :* Vespolini Predlock, Moscow, U.S.S.R.; 16, Niegolewaskieg, Warsaw 86, Poland.

Chairman-cum-Mg. Director : R. M. Nayar.

Employees' State Insurance Corpn., *Hqrs. Office :* ESIC Building, Kotla Road, New Delhi 110001.

The Scheme applies to power-using factories employing 10 to 19 persons and non-power using factories employing 20 or more workers, Shops, Theatres, Cinemas, Hotels, Restaurants, Motor Transport Undertakings and Newspaper Establishments employing 20 or more persons. All employees in receipt of remuneration not exceeding Rs. 1,000 per month working in a Factory/Establishment to which the Act applies are covered by the Act.

The scheme provides for medical care for insured persons and their families and cash benefits viz. sickness, maternity, disablement, dependants and funeral expenses. The scheme is in force in all the States except Jammu and Kashmir and Meghalaya.

(Also see chapter on 'Labour' for details.)

Chairman : Ravindra Varma ; *Director-General :* T. N. Lakshmi Narayan.

Engineers India Ltd., PTI Bldg., 4, Parliament St., New Delhi 110001.

The company provides complete consultancy services such as techno-economic studies, process design, engineering, procurement, construction supervision, etc. for projects in the fields of petroleum pipelines, petrochemical, chemical, fertilizer, synthetic fibre, non-ferrous metallurgy, refractory and allied fields. Also undertakes design of heat and mass transfer equipment, engineering of ports and harbours, off-shore structures, environmental engineering, systems engineering, computer services and specialist maintenance services.

Chairman & Mg. Director : K. V. Raghavan.

Engineering Projects (India) Ltd., Kailash Bldg., K. Gandhi Marg, New Delhi 110001.

Functions as a consortium of seven leading Government of India enterprises for executing complete plant/project on turnkey basis in India and abroad. The company is presently engaged in implementing 50 turnkey projects of the value of Rs. 4,179·45 million and 9 orders of the value of Rs. 2,683 million in Eastern Europe, Middle East, Far East and Gulf countries.

Chairman & Mg. Director : Mohd. Fazal ; *Gen. Managers :* T. R. Anantharaman, Col. P. K. Chakravarty, Dr. A.

Dasgupta, S. S. Dasgupta, M. R. Jain, S. M. Razvi, G. K. Mathur.

Export Credit & Guarantee Corpn. Ltd., Express Towers, 10th Fl., Nariman Point, Bombay 400021.

Functions : To promote the growth of India's export trade by providing insurance facilities to Indian exporters, covering certain commercial and political risks involved in exports on credit terms and furnishing guarantees to banks enabling the exporters to get advances from the banks on liberal terms.

Chairman & Mg. Director : D. D. Sathe, I.C.S. (Retd.); *Gen. Manager :* U. K. Sarma.

Fertilisers & Chemicals (Travancore) Ltd., Udyogamandal 683501, Kerala.

Udyogamandal Divn., produces Ammonium Sulphate, Superphosphate, Ultrafos, Ammonium Phosphate, Ammonium Chloride etc.; **Cochin Divn.** produces Urea, NPK complexes; **FACT Engg. & Design Orgn.** (FEDO) undertakes complete designing and engineering of chemical and fertiliser plants; **FACT Engg. Works** (FEW) caters to the specialised needs of the industry in the field of fabrication of plant and equipment as well as structural and erection works.

Chairman & Mg. Director : Dr. P. K. Narayanaswamy; *General Manager, Udyogamandal Division :* K. P. K. Nair; *General Manager, FEDO :* K. K. Abraham; *General Manager, Cochin Division :* R. Venkatakrishnan.

Fertilizer Corpn. of India Ltd., Madhuban, 55, Nehru Place, New Delhi 110024.

(For details see chapter on "Fertiliser Industry").

Chairman & Mg. Director : K. C. Sharma; *General Managers :* B. N. Kakkar (Nangal); K. H. Chaurey (Sindri); P. L. Kukreja (Ramagundam); P. Chawla (Korba); O. P. Agarwal (Gorakhpur); and B. N. Biswas (Talchar).

Fertilizer (Planning & Devpt.) India Ltd., C.I.F.T. Bldgs., P. O. Sindri 828122, Dhanbad Dist., Bihar. This new company was formed by constituting the Planning and Devpt. Division of the Fertilizer Corpn. of India into a separate independent Govt. Company.

Functions : Consultants for the setting up of fertilizer and allied plants and manufacturers of a full range of fertilizer catalysts.

General Manager : H. H. Jethanandani.

Film Finance Corpn. Ltd., "White House", 91, Walkeshwar Rd., Bombay 400006. (For details see chapter on Film Industry.)

Food Corpn. of India, 16-20, Barakhamba Lane, New Delhi 110001.

Functions : To provide the farmer an assured price for his produce, supply quality foodgrains to the consumer at reasonable prices.

FCI today has 4 zonal offices, one each at Bombay, Calcutta, Delhi and Madras, 19 regional offices, over 130 district offices and nearly 1,300 storage centres. FCI has over 20·52 million tonnes of storage capacity.

FCI has set up 25 modern rice mills of 4 tonne per hour capacity at various rice-producing centres in the country. FCI has set up a groundnut solvent extraction plant at Ujjain in Madhya Pradesh, a maize mill at Faridabad in Haryana and a dal mill at Lucknow in Uttar Pradesh. It has also set up a rice bran oil extraction plant at Sembanarkoil in Tamil Nadu.

Chairman : S. S. Grewal, I.A.S.; *Mg. Director :* B. C. Gangopadhyay, I.A.S.

Garden Reach Shipbuilders & Engineers Ltd., 43/46, Garden Reach Rd., Calcutta 700024.

The Company has its main workshops at Garden Reach Road, and branch units at Baranagore, Taratala Road, Netaji Subhas Dock (Calcutta Port Trust); 61, Garden Reach Road, Belur and Sinthee in West Bengal, at Nagpur in Maharashtra and a marine diesel engine plant at Ranchi Bihar.

The Company has 3 slipways and 2 building docks. It is one of the major ship-building and ship-repairing yards in India and is fully equipped to undertake all types of marine repairs of sea-going vessels as well as inland and harbour crafts. It builds all types of inland and harbour crafts and the smaller coastal vessels, and has specialised in the building of dredgers, tugs, barges and has started building ocean-going vessels upto 26,000 DWT with its own design. This is a major effort for the first time in the country to develop the basic design of an ocean going ship.

The Company also manufactures electrical overhead travelling cranes, deepwell turbine pumps, marine haulages and conveyors, air compressors, diesel road rollers, fibreglass life boats, pressure vessels, heat exchangers and deck machinery items like cargo winches, windlasses, portable steel bridges etc.

They are also manufacturing marine diesel engines of three types at Ranchi with power range varying from 225 BHP to 20,000 BHP.

Mg. Director : Commodore A. K. Sarkar.

General Insurance Corpn. of India Ltd., Ind. Assurance Bldg., Churchgate, Bombay 400020.

Chairman : G. V. Kapadia; *Mg. Directors :* R. K. Daruwalla & K. S. Shenoy; *Chairmen-cum-Mg. Directors :* K. P. Modi (National); V. C. Vaidya (New India); R. Sadagopan (Oriental Fire & Gen.); Ashok Goenka (United India).

Goa Shipyard Ltd., Vasco-da-Gama, Goa. (A subsidiary of Mazagon Dock Ltd.).

Undertakes construction of self-propelled ore barges upto 1,000 tons dwt., tugs, small dredgers, fishing trawlers, harbour craft and launches; also undertakes repairs to such craft and ships visiting the port. An interim development plan envisaging the development of a platers shop, fitting & machine shops, ICE shop, joiner shop, lifting gear testing facilities, hydraulic chain testing facilities, etc. has been completed. It is planned to further develop the yard and undertake manufacture of fibreglass boats.

Chairman and Mg. Director : Vice-Admiral N. P. Datta.

Govt. Opium & Alkaloid Works Undertaking Neemuch 458441, Madhya Pradesh. Exports opium to various parts of the world and the Alkaloid Works is engaged in the manufacture of five main alkaloids of opium viz. morphine, codeine, narcotine, papaverine and thebaine which are widely used for pharmaceutical purposes. A 'Research and Development' Wing has been set up in the Alkaloid Works to undertake research work in the field of opium and its alkaloids.

Gen. Manager : Dr. S. P. Bhatnagar.

Handicrafts & Handlooms Exports Corpn. of India Ltd., Lok Kalyan Bhavan, 11A, Rouse Ave. Lane, New Delhi 110001.

Functions : It undertakes export of handicrafts and handloom goods, with the main object of introducing new items and exploring new markets. It also handles canalised export of woollen knitwear.

The Corporation has Sona retail shops in New York Paris, Nairobi and Tokyo. It has a carpets warehouse in Hamburg, a branch office in Madras, and regional offices in Bombay, Calcutta, Ludhiana and Bhadohi.

Chairman : G. B. Nowalkar; *Mg. Director :* Prem Nath.

Heavy Engineering Corpn. Ltd., Administrative Building Plant, Plaza Rd., P.O. Dhurwa, Ranchi 834004, Bihar.

The Corporation has now established the following projects. **Heavy Machine Building Plant, Ranchi:** (collaboration U.S.S.R.) The plant has a production capacity of 80,000 tonnes of machinery items for steel plants and heavy engineering industries and 25,000 tonnes of structural steel items per year. **Foundry Forge Plant, Ranchi:** (collaboration Czechoslovakia) This plant has the following production capacity per year from its main production shops: Grey Iron Foundry (shaped castings) 33,345 tonnes; Steel Foundry (shaped castings) 40,182 tonnes; Non-Ferrous Foundry (castings) 700 tonnes; Forgings 50,000 tonnes; Grey Iron Steel and Forged Rolls 21,310 tonnes. **Heavy Machine Tools Plant, Ranchi:** (collaboration Czechoslovakia) This plant has an annual production capacity of 278 diverse items of heavy machine tools, weighing 10,000 tonnes approximately. The plant has gone into production of items like radial drilling machines, central lathes, double column planning machines etc.

Chairman-cum-Mg. Director : A. C. Chatterjee.

Heavy Vehicles Factory, Avadi, Madras 600054.

The Heavy Vehicles Factory, is designed as an integrated unit for the manufacture of all major assemblies of the tank. The first 'Vijayanta' medium tank produced in this factory rolled out on 29-12-65 as scheduled and since then, regular production of tanks has been established. The factory has also established production of armoured recovery vehicles required for the Army.

The planning of the factory has been done in a manner that manufacturing capacity is available not only for the manufacture of tracked vehicles but also for other items of heavy engineering required for military as well as civilian purposes.

General Manager : C. Madhavan, I.O.F.S.

Hind Cycles Ltd., 250, Worli, Bombay 400025.

Manufactures Speed King, Norton, Ambassador, Hind Superb, Unibike, Paprika bicycles and bicycle parts.

Branch Works : Hind Nagar, Ghaziabad 201001. U.P.

Chairman : B. G. Roy ; *Chief Executive :* Col. B. C. Shukla.

Hindustan Aeronautics Ltd., Indian Express Building, Vidhana Veedhi, Bangalore 560001.

The Hindustan Aeronautics Limited, came into being on 1st October 1964 by the amalgamation of Hindustan Aircraft Ltd. of Bangalore with Aeronautics India Ltd. It has three Complexes viz., Bangalore Complex comprising of six units, MiG Complex comprising of Nasik and Koraput Divisions and Accessories Complex comprising of Hyderabad and Lucknow Divisions besides a separate Unit at Kanpur.

It is currently manufacturing: (*a*) The Jet ground attack fighter HF-24 (Marut) which has been designed and developed by HAL; (*b*) The Supersonic interceptor MiG-21; (*c*) The Jet fighter Ajeet; (*d*) The Jet trainer HJT-16 (Kiran) which has been designed and developed by HAL; (*e*) The Alouette III (Chotak) & SA-315 Cheetah Helicopters; (*f*) The transport aircraft HS-748; (*g*) The Agricultural Aircraft HA-31 (Basant) which has been designed and developed by HAL; (*h*) Several types of aero-engines and (*i*) Several items of airborne electronic equipment.

Work on the manufacture of a modified version of the MiG-21 aircraft under licence is progressing. The company has also successfully designed, developed and test flown HPT-32 piston engined aircraft which will go into production shortly.

The company also undertakes the overhaul of aircraft, aeroengines and allied equipment.

Development Work : The items under development include variants of the HF-24 aircraft, indigenous helicopter in collaboration with SNIAS, France, 300 KVA gas turbine driven generator set and several items of electronic equipment.

Chairman : Air Marshal S. J. Dastur; *Mg. Director* (Bangalore Complex): P. D. Chopra; *Mg. Director* (MiG Complex): S. C. Keshu; *Mg. Director* (Accessories Complex): B. K. Kapur.

Hindustan Antibiotics Ltd., Pimpri, Pune 411018, Maharashtra.

This factory came into being as a result of the tripartite agreement between the Government of India, the World Health Organisation and the UNICEF.

It produces antibiotics like penicillin, streptomycin, semisynthetic penicillin like ampicillin and formulations. The present capacity of production of penicillin is about 84 mmu. and streptomycin 80–90 tonnes per annum.

Chairman & Mg. Director : A Swaminathan.

Hindustan Cables Ltd., P.O. Hindustan Cables, Hyderabad 500051, Andhra Pradesh.

The company produces paper insulated underground telephone cables, polyethylene insulated jelly filled telephone cables and various other types of communication cables.

Project Manager : K. L. Reddi.

Hindustan Coir, P.O. Kalavoor, Alleppey Dist., Kerala. This powerloom factory is under the Coir Board (Govt. of India) for the production of coir mattings — first of its kind under public sector. Started production on commercial sale on 1st Jan. 1969.

General Manager in Charge : A. N. Ramanna.

Hindustan Copper Ltd., *Regd. Office :* Industry House, 10, Camac St., Calcutta 700017.

Khetri Copper Complex, Rajasthan: Capacity: (*i*) Production of 31,000 tonnes of electrolytic grade copper metal per annum; (*ii*) Production of about 200,000 tonnes of triple super phosphate per annum.

Some quantity of gold and silver would also be recovered as by-products. The electrolytic flash smelter at the plant was commissioned in early 1975.

Indian Copper Complex, Bihar: The current production of copper metal at Ghatsila is about 15,000 tonnes per annum. The company has plans in hand for the expansion of production of copper metal at this complex to about 20,000 tonnes.

Rakha Copper Project, Bihar: Located in District Singhbhum and comprising 3 blocks (*i*) Rakha Mines Block; (*ii*) Roam Sideshwar; and (*iii*) Tama Pahar. Work on the first phase development of Rakha Copper Project started in August, 1969. A new concentrator plant has been set up.

Agnigundala Lead Project, Andhra Pradesh: A pilot lead concentrator of 100 tonnes per day capacity was commissioned in early 1975 at the Bandalamottu block.

Dariba Copper Plant, Alwar District, Rajasthan: The project with a capacity production of 100 tonnes of ore per day or copper concentrates equivalent to about 600 tonnes of copper metal per year, went into production in August, 1973. Plans for expansion to enable treatment of 250 tonnes of ore per day are under consideration.

Malanjkhand Copper Project, Madhya Pradesh: Soviet assistance to exploit the Malanjkhand deposits in Balaghat District has been concluded. The target is to produce 20,000 to 30,000 tonnes of copper metal per year.

Chandmari Copper Project, Dist. Jhunjhunu, Rajasthan: Open-cast mining operations have started at Chandmari to produce 500 tonnes of copper ore per day. The ore will be processed at the nearby Khetri Complex.

Chairman & Mg. Director : J. C. Marwaha.

Hindustan Diamond Co. Pvt. Ltd., 61, Bombay Samachar Marg, Bombay 400023.

Chairman & Mg. Director : S. N. Sharma.

Hindustan Fertilizer Corpn. Ltd. (HFCL), Madhuban, 55, Nehru Place, New Delhi 110019. One of the five companies of the reorganised Fertilizer Corpn. of India Ltd., and National Fertilizers Ltd., HFCL has three fertiliser producing units namely — Namrup, Durgapur and Barauni and a Project — Haldia which is on commissioning stage. It has an annual production capacity of 500,000 tonnes of Nitrogen.

Chairman: K. C. Sharma ; *Mg. Director :* R. Subramanian.

Hindustan Insecticides Ltd., Regd. Office: E-3, Defence Colony, Ring Rd., New Delhi 110024.

It has a factory each in Delhi and Alwaye (Kerala) for the manufacture of D.D.T. and B.H.C.

The company has a paid up capital of Rs. 12·547 million. The total capacity of production of the Company at present is 4,088 tonnes per annum of Tech. DDT and 8,176 tonnes of Form. DDT and 3,000 tonnes of Tech. BHC. The factory at Delhi has the capacity of producing 2,744 tonnes of Tech. DDT 5,488 tonnes of Form. DDT and at Alwaye the capacity is 1,344 tonnes of Tech. DDT and 2,688 tonnes of Form. DDT as also 3,000 tonnes of Technical BHC per annum, a new chemical used for public health as well as for crop protection.

The company hopes to add the following plants: 1,600 tonnes per annum Endosulfan project; 1,800 tonnes per annum Malathion project; 5,000 tonnes per annum DDT project; 8,250 tonnes per annum Caustic-chlorine plant for captive use; a granulation plant for pesticides and a multipurpose plant for organo-phospherous pesticides.

Chairman : C. N. R. Rao ; *Mg. Director :* R. S. Hamsagarn.

Hindustan Latex Ltd., Nirodh Factory, Peroorkada, Trivandrum 695005, Kerala.

Registered Office : Latex Bhavan, Mahilamandiram Rd., Poojapura, Trivandrum 695012 (Under the Ministry of Health and Family Welfare.)

The company set up with Japanese collaboration, manufactures 288 million pieces of Nirodh (Rubber condoms) per year.

Chairman : Dr. R. Rabindranatha Menon, I.A.S.

General Manager : Lt.-Col. V. B. Menon (Retd.).

Hindustan Machine Tools Ltd., No. 36, Cunningham Rd., Bangalore 560052.

General : Hindustan Machine Tools Limited is a multi-product company comprising of nine plants with fifteen production divisions set up in different parts of the country, producing wide varieties of Machine Tools, Wrist Watches, Tractors, Printing Machinery, Lamp Making Machinery, Lamps and Lamp Components.

It produces almost all types of basic and general purpose machine tools including specialised, sophisticated and highly sophisticated tools such as Numerically Controlled (NC) Lathes and Machining Centres. Machine Tools are produced in the Company's Units Divisions I & II in Bangalore (Karnataka), III in Pinjore (Haryana), IV in Kalamassery (Kerala), V in Hyderabad (Andhra Pradesh), VI in Ajmer (Rajasthan) and the Horological Machinery Division, Bangalore (Karnataka).

The Company produces several types of Ladies' and Gents' Wrist Watches including Automatic Day-date Watches at WF I & II, Bangalore (Karnataka) and WF III, Srinagar (Jammu & Kashmir).

Other products manufactured are Agricultural Tractors at Tractor Division in Pinjore, Printing Machinery at Printing Machinery Division in Kalamassery and Lamp Making Machinery, Lamps and Lamp Components at the Hyderabad Unit.

Production and Sales : The Company's Production and Sales for the year 1977-78 were Rs. 1,197·1 million and Rs. 1,175·9 million respectively, as compared to Rs. 949·7 million and Rs. 907·3 million respectively during 1976-77.

Export : The Company's exports during the year 1977-78 were of the value of Rs. 60·5 million.

New Projects : To increase production capacity of watches from 1·2 million to 3·2 million a new project for manufacture of watch components at Tumkur in Karnataka has been cleared by the Government of India. The components would be assembled at 14 captive watch assembly units in different parts of the country.

The Company also proposes to set up a separate Unit for manufacture of Precision Measuring Instruments.

Project Consultancy : The Company's Project Consultancy Division has assisted various State Government Organisations and private companies in India and abroad in setting up Machine Tool Plants, Tool Rooms, Watch Case Units, Agricultural Machinery Plants and other Engineering Industries.

Chairman & Mg. Director : Shri B. Ramachandra.

G. V. Appa Rao (General Manager, Watch Factory, Bangalore); K. R. Nayar (General Manager, HMT, Kalamassery); H. C. Gandhi (General Manager, HMT, Ajmer); K. S. Namdev Rao (General Manager, Horological Machinery Division, Bangalore).

Hindustan Organic Chemicals Ltd., P.O. Rasayani, Kulaba Dist., Maharashtra.

A Rs. 200 million project, set up on December 12, 1960 to manufacture a wide range of organic chemicals and intermediates which are the basic material for the manufacture of drugs, dyestuffs, insecticides, plastics and rubber chemicals, etc.

Of the twelve plants envisaged in the first phase of the company's programme, namely Acetanilide, Meta-Amino-Phenol, Sulphuric Acid, Formaldehyde, Benzene-Hexa-Chloride, Aniline, Nitrobenzene, Nitrotoluene, Hydrogen, Dinitrobenzene, Monochlorobenzene and Nitrochlorobenzene have gone on stream.

The second phase of the company's programme involving a capital outlay of Rs. 150 million is taken up. Apart from expansion of Nitrobenzene, Aniline, Acetanilide and Hydrogen plants, a captive concentrated Nitric Acid plant is included in Phase II programme which is likely to be completed by 1980-81.

Chairman & Mg. Director : P. N. Devarajan.

Hindustan Paper Corpn. Ltd., Regd. Office: Vishal Bhavan, 95, Nehru Place, New Delhi 110024.

Project Offices : Nowgong Pulp/Paper Project, Jagi Rd., Dist. Nowgong ; Cachar Pulp/Paper Projects, Sanskriti Bhavan, Cantonment Rd., Silchar 788001, Assam ; Kerala Newsprint Project, Velloor, Mevelloor 686609.

Subsidiaries : Nagaland Pulp & Paper Co. Ltd., P.O. Tuli, Mokokchung Dist., Nagaland ; Mandya National Paper Mills Ltd., Belagula, Karnataka.

Functions : To establish newsprint, paper and pulp factories in the public sector. Registered in May, 1970 the Corporation is setting up four plants. Two of these plants will be located in Assam, each with a capacity of producing 100,000 tonnes of paper per year. Another plant is being set up in Nagaland with an annual capacity of 33,000 tonnes of paper. The fourth project, a newsprint mill is being set up in Kerala at Velloor near Vaikom in Kottayam Dist. with a capacity of 80,000 tonnes production per annum.

Chairman & Mg. Director : M. L. Zutshi.

Hindustan Petroleum Corpn. Ltd., 17, J. Tata Rd., Bombay 400020.

Mg. Director : R. M. Bhandari.

(*See* Chapter on " *Petroleum Industry* ".)

Hindustan Photo Films Mfg. Co. Ltd., Indu Nagar, Ootacamund 643005, Tamil Nadu.

This factory was set up in collaboration with a French firm, Bauchet and Co. It is now in a position to turn out annually 6·15 million sq. mtrs. of photographic film and photographic paper of various kinds. Production of colour films from out of imported jumbo rolls has also commenced in the factory. As an adjunct to the main plant, a Silver Nitrate Plant, a Silver Sludge Recovery Plant and a unit for synthesizing organic chemicals, have also been set up.

Chairman : M. S. Appa Rao ; *Mg. Director :* P. R. S. Rao.

Hindustan Prefab Factory Ltd., Jungpura, New Delhi 110004.

Main products: Prefabricated components for multi-storeyed buildings; Prestressed concrete electric transmission and street light poles ; P.C.C. beams and trusses for industrial sheds with sheeted roofs ; Hollow core roofing and flooring components ; Prestressed fencing posts ; R.C.C. door and window frames ; Hollow blocks for roofing and walling ; Overhead concrete water storage tanks ; Large concrete panels for large panel house construction ; Prestressed concrete mono-block railway sleepers ; R.C.C. two-block railway sleepers ; Precast R.C.C./P.C.C. Components of bridges ; Vayutan cellular concrete blocks for cold storage and air-conditioned buildings and for light weight partition ; and Reinforced vayutan slabs for roofing and flooring in multi-storeyed buildings ; Machine-made doors, window frames and shutters ; High class furniture and interior decoration work ; Seasoning and chemical treatment of timber.

Mg. Director : K. K. Sachdev ; *Devpt. Manager :* G. B. Singh.

Hindustan Salts Ltd., Badnoor House, Bhagwan Das Rd., P. B. 146, Jaipur 302001, Rajasthan.

The salt sources at Kharaghoda (Gujarat) and the salt mines at Mandi (Himachal Pradesh) are under the administrative control of the company. At Kharaghoda the salt is manufactured from sub-soil brine and at Mandi it is excavated where there is also a salt refinery.

Work on the Bromine plant at Kharaghoda is in progress, which when finished, will produce 500 kg. Bromine per day from salt bitterns discarded after the manufacture of salt.

The Sambhar Salts Ltd., is a subsidiary of Hindustan Salts Ltd. It has a unit at Sambhar Lake in Rajasthan where the salt is manufactured out of lake water.

Chairman & Mg. Director : R. R. Purohit.

Hindustan Shipyard Ltd., Visakhapatnam 530005, Andhra Pradesh.

The shipyard has four building berths with a capacity of 15,000 dwt. each, and bulk carriers/tankers upto 25,000 dwt. The capacity of the dry dock constructed at a cost of Rs. 48·2 million is 70,000 dwt.

Hindustan Shipyard has so far built 75 ships of different sizes and types aggregating more than 739,150 dwt.

Chairman & Mg. Director : R. Srinivasan.

Hindustan Steel Ltd., Durgapur 713208, West Bengal (Refer to " Steel Authority of India " in this list).

(Also see Chapter on Steel Industry.)

Hindustan Steel Works Construction Ltd., 1, Shakespeare Sarani (8th Floor), Calcutta 700071.

The company undertakes entire responsibility for the construction of steel plates ; better and closer co-ordination of various activities during the construction phase ; conservation of trained personnel for steel plant construction programmes. The diversified activities of the company cover the existing as well as the new steel plants under construction. The company has also undertaken construction of dams, bridges, mining complexes, dry docks, townships, etc. This technology and expertise are also available for export abroad.

Mg. Director : B. G. Baljekar.

Hindustan Teleprinters Ltd., G. S. T. Rd., Guindy, Madras 600032.

This company was set up in collaboration with Ing. C. Olivetti & C., Sp. A., of Italy. The factory manufactures tape and page models of teleprinters, printing reperforator attachment, transmitter attachment, independent automatic tape transmitters in Latin, Devanagari and Arabic scripts, electric typewriter, stamp cancelling machine, power cubicles for telephones and telex exchanges.

Chairman-cum-Mg. Director : Dr. B. C. Seetharam.

Hindustan Zinc Ltd., 6, New Fatehpura, Udaipur 313001, Rajasthan.

The units administered by this company are :

Under Production: 1. Zawar group of mines, Dist. Udaipur, Rajasthan ; Mochia and Balaria Mines, (42 million tonnes ore reserve approx.) are producing 1·2 million tonnes of zinc-lead ore with about 5 per cent zinc and lead metal content. 2. Maton Rockphosphate Mines, Dist. Udaipur, Rajasthan is producing 115,000 tonnes of ore and 65,000 tonnes of beneficiated ore with + 32 per cent P_2O_5 per annum. The mines and beneficiation plant are being developed to produce 90,000 tonnes of beneficiated rockphosphate ore per annum. 3. Debari Zinc Smelter, Dist. Udaipur, Rajasthan — has an installed capacity of 45,000 tonnes of zinc, 87,000 tonnes of sulphuric acid, 190 tonnes of cadmium, 26,000 tonnes of phosphoric acid, 1,500 tonnes of zinc sulphate, 300 tonnes of copper sulphate and 3,600 tonnes of zinc dust per annum. 4. Lead Smelter, Tundoo, Dist. Dhanbad, Bihar. A pyrometallurgical smelter produces 8,000 tonnes of lead and 12 tonnes of silver per annum.

Under Construction : 1. Rajpura — Dariba Mines Dist. Chhittorgarh, Rajasthan. The project is under construction and is planned to produce 900,000 tonnes of lead-zinc ore per annum containing about 7½ per cent zinc and lead metal content with matching beneficiation facilities and expected to be completed by 1982. 2. Vizag

Zinc Smelter, Visakhapatnam, Andhra Pradesh. This zinc-lead smelting complex with a capacity of 30,000 tonnes of zinc 10,000 tonnes of lead, 66,000 tonnes of sulphuric acid and 114 tonnes of cadmium is under progress.

Under Investigation : 1. Zawarmala and Baroi Mines (29 million tonnes ore reserve approx.) are under exploratory development, projected to produce 900,000 tonnes of zinc-lead ore per annum. 2. Sargipali (Orissa) lead deposit with about 7 per cent lead and copper metal content is also under investigation.

Zinc circuit went into operation during 1977 and lead circuit in 1978.

Chairman-cum-Mg. Director : R. P. Kapur.

H. M. T. (International), Ltd., P. O. H.M.T., Jalahalli, Bangalore 560031.

Hotel Corpn. of India Ltd., Centaur Hotel, Bombay Airport, Bombay 400057.

Functions : A wholly-owned subsidiary of Air India, aims at carrying on the business of hotels and restaurants and providing lodging and boarding facilities for the public including tourists with a view to promoting tourist trade. At present, it operates two flight kitchens at Bombay and New Delhi, restaurants and snack bars at Bombay and Delhi airports and tourist resort at Bangaram, Lakshadweep Island. The Corporation opened its first 300 room luxury class Centaur Hotel at Santa Cruz Airport in May 1975.

The company has plans to set-up another Luxury class hotel with 355 rooms in Bombay, hotels at the Buddhist Centres — Rajgir in Bihar and Kushinagar in U.P., in collaboration with a Japanese firm, for promoting Japanese Buddhist traffic to India, a 275-room hotel in Srinagar, as part of an International Conference Complex, and a tourist resort in the Andamans & Nicobar Islands.

Chairman : K. G. Appusamy ; *Mg. Director :* Narpatsingh ; *Directors :* C. L. Sharma, Kum. T. E. Philip, A. K. Mathur, S. A. Rajagopalan, R. S. Ratnakar.

Hotel Janpath, Janpath, New Delhi 110001.

This Hotel is a unit of India Tourism Development Corporation having 214 rooms. It is moderately priced and very centrally situated.

Manager : J. P. S. Ahluwalia.

Housing & Urban Development Corpn. Ltd., 12-A, Jamnagar House, New Delhi 110011.

Functions : To finance or undertake housing and urban development programmes in the country, to offer consultancy services for Housing & Urban Devpt. Projects in India and abroad and also setting up of new or satellite towns and building material industries etc. In seven years it has approved loans for 731 projects for about Rs. 3,101·50 million in almost all States.

Chairman & Mg. Director : H. U. Bijlani.

Hydro Carbons (India) Pvt. Ltd. (See Chapter on Petroleum Industry).

IISCO Stanton Pipe & Foundry Ltd., IISCO House, 50, Chowringhee Rd., Calcutta 700071.

India Fire Bricks & Insulation Co. Ltd., P. O. Marar, Near Ranchi Rd. Rly. Station, Dist. Hazaribagh 825117, Bihar.

Mg. Director : N. C. Mukherjee.

India Tourism Development Corpn. Ltd., Jeevan Vihar, 3, Parliament St., New Delhi 110001.

Regional Offices : Nirmal, Nariman Point, Bombay 400021; 3G, Everest Bldg., 46C, Chowringhee Rd.,Calcutta 700016; 35, Mount Rd., Madras; 'L' Block, Connaught Place, New Delhi 110001.

Functions : It provides a range of tourist services throughout the country : accommodation, transport, entertainment, tourist literature and duty free shops.

ITDC runs 14 hotels, 2 beach resorts, 2 motels, 3 forest lodges, 14 travellers lodges, 3 sound and light shows, 4 duty free shops, 15 transport units and 11 restaurants. In Delhi, it runs Hotels Ashoka, Akbar, Janpath, Lodhi, Qutab and Ranjit ; in Bangalore, Hotel Ashoka ; in Udaipur, Laxmi Vilas Palace Hotel ; in Aurangabad, Aurangabad Hotel ; in Calcutta, Airport Hotel ; in Khajuraho, Khajuraho Hotel ; in Varanasi, Varanasi Hotel ; in Patna, Hotel Patliputra ; in Mysore, Lalitha Mahal Palace Hotel ; in Kerala, Kovalam Beach Resort at Kovalam and in Tamil Nadu, Temple Bay Beach Resort at Mahabalipuram. In addition the Corporation has two motels at Hassan and Jammu and forest lodges at Bharatpur, Sasangir and Kaziranga.

Chairman & Mg. Director : A. K. Dave.

Indian Airlines. (See Chapter on Civil Aviation.)

✓**Indian Dairy Corpn.,** Darpan Bldg., R. C. Dutt Rd., Vadodara 390005.

Branches : Delhi, Bombay, Madras & Calcutta.

Functions : To promote dairying in India and to execute the World Food Programme assisted project "Operation Flood" on behalf of the Government. The project aims at improvement of milk marketing and dairy development by enabling the organised dairy sector to obtain a commanding share of the markets in the four major cities of Bombay, Calcutta, Delhi and Madras.

The dairy projects are now being implemented in 22 districts in ten States included in Operation Flood. Operation Flood II is now being planned to be implemented in 155 districts with commodity assistance from E.E.C. countries and financial assistance from World Bank.

During the period July, 1970 to December, 1977, the total quantity of skim milk powder and butter oil received by the Indian Dairy Corporation from World Food Programme was 100,068 tonnes and 34,565 tonnes respectively. Upto 31st December, 1977, the funds generated by the Indian Dairy Corporation have been Rs. 866·5 million and a total of Rs. 650·3 million was disbursed to States/Implementing Agencies for implementing the "Operation Flood".

The Corporation also acts as the canalising agency for the export of certain breeds of milch cattle.

Chairman : Dr. V. Kurien; *Mg. Director:* A. K. Ray Chaudhuri.

Indian Drugs and Pharmaceuticals Ltd., N-12 & 13 South Extension (Part I), Ring Rd., New Delhi 110049. It has five plants under its control, Antibiotics Plant at Rishikesh, Synthetic Drugs Plant at Hyderabad, Surgical Instruments Plant at Madras, a formulation plant at Gurgaon in Haryana with technical help from Sweden and a project in Muzaffarpur, Bihar. The first three plants have been set-up with the help of the Government of U.S.S.R. The other two plants will be completed by mid 1979. Antibiotics Plant at Rishikesh (Uttar Pradesh) has been set up to produce penicillins, sodium & procaine, streptomycin, tetracycline, oxytetracycline and vitamins at an estimated cost of Rs. 285 million. Its products are already in the market.

The Synthetic Drugs Plant at Hyderabad set [illegible] cost of Rs. [illegible] million producing about [illegible] tonnes of 21 types of synthetic drugs starting from basic stages. It serves the prime needs of the country with regard to synthetic drugs. Surgical Instruments Plant, Madras set up at a cost of Rs. 46·40 million manufactures various types of surgical instruments of high quality.

Chairman & Mg. Director : Dr. L. K. Behl.

General Managers : Rishikesh : N. S. P. Chawla ; Hyderabad : A. Ramchandran ; Madras : S. Srinivasan ; Gurgaon : Dr. B. Gurunath Rao ; *Project Manager*, Muzaffarpur : S. N. Singh.

Indian Investment Centre, Jeevan Vihar Bldg., Parliament St., New Delhi 110001.

To stimulate the flow of foreign private capital and technical know-how into India within the framework of Government policies by obtaining suitable collaboration for joint ventures in India ; also disseminates information on commercially viable indigenous technologies to the prospective investors ; provides effective assistance to Indian entrepreneurs for the setting up of joint ventures abroad either on their own technology or as joint ventures in third countries in collaboration with suitable foreign concerns. The Centre assists Public Sector Undtkgs., State Indl. Corpns. & private institutions in locating suitable foreign partners to obtain technological skills, experts and in negotiating terms of collaboration, etc. An Entrepreneurial Guidance Bureau has also been set up in the Centre to guide the entrepreneurs regarding the policies and procedures relating to the establishment of fresh indl. capacity by providing information and advice. A branch of the EGB has also been established at Calcutta to cater to the needs of the regnl. entrepreneurs. The IIC brings out a monthly 'Newsletter' containing important topics on economic and industrial climate of the country besides profiles on developing countries and on products having scope for investment for the benefit of the prospective entrepreneurs. The IIC also publishes, from time to time, authentic condensation of Indian Company Law, Indl. Licensing Policy, Foreign Investment & Collaboration Guidelines, Taxes & Incentives, Labour Legislation, Specialized Financial Institutions and facilities to non-resident Indians, etc. *Branch Offices :* 18-A, Nyaya Marg, Allahabad 211001 ; 'Panchanan' Corpns. Bldg., Market Rd., Bhopal 462001 ; 19A, Netaji Subhas Rd., Calcutta 700001 ; Sector 17-C, 90-91 SCO, Chandigarh 160017 ; 11-A/3, Anna Salai, Madras 600001. *Overseas Offices :* 708, Third Avenue, New York, N.Y. 10017, U.S.A. ; Karlstrasse 76, Duesseldorf 4. (W. Germany) : 40, Great Portland St., London WIN 5 AH & Embassy of India, 2-11, Kudan Minami, 2-Chome, Chiyado-Ku, Tokyo (Japan). *Chmn.:* R. S. Bhatt; *Exec. Dir.*, Harbans Singh.

Indian Iron & Steel Co. Ltd., 12, Mission Row, Calcutta 700001. (A subsidiary of Steel Authority of India).

Mg. Director : D. R. Ahuja.

Indian Motion Pictures Export Corpn. Ltd., (Regd. Office), 5th Fl., 'D' Shiv Sagar Estate, Dr. A. Besant Road, Worli, Bombay 400018. (For details see chapter on Film Industry.)

Indian Oil Blending Ltd., Pirpau, Trombay, Bombay 400074.

Indian Oil Corporation Ltd. (See Chapter on Petroleum Industry).

Indian Petrochemicals Corpn. Ltd., P.O. Petrochemicals, 391346, Vadodara Dist., Gujarat. (For details see chapter on Petrochemical Industry).

Chairman & Mg. Director : Dr. S. Varadarajan.

Indian Railway Construction Co. Ltd., New Delhi House, 27-Barakhamba Rd., New Delhi 110001.

Chairman : K. S. Rajan ; *Director :* M. Menezes.

Indian Rare Earths Ltd., Pil Court, 111, M. Karve Rd., Bombay 400020. (Also see Chapter on " Atomic Energy ").

Chairman & Mg. Director : M. A. Hadi ; *Chief Project Manager :* K. Subramanian.

Manager, Rare Earths Division, Alwaye : B. P. Nair ; *Manager*, Minerals Division, Quilon : P. O. Titus ; *Dy. Works Manager*, Thorium Factory, Trombay : G. K. Kelkar.

Indian Road Construction Corpn. Ltd., Raja House, Nehru Place, New Delhi 110024.

Chairman & Mg. Director : Lt. Genl. B. N. Das.

Indian Standards Institution, Manak Bhavan, 9, Bahadur Shah Zaffar Marg, New Delhi 110002.

Regnl. Offices : Novelty Chambers, Grant Rd., Bombay 400007 ; 5, Chowringhee Approach, Princep St., Calcutta 700072 : C.I.T. Campus, Adyar, Madras 600020. *Branch Offices :* 'Pushpak', 3rd Flr., Nurmohamed Shaikh Mrg., Khanpur, Ahmedabad 380001 ; 'F' Block, Unity Bldg., Narasimharaja Square, Bangalore 560002 ; Showhouse Bldg., Sachivalaya Marg, Bhubaneswar 751001 ; Ahimsa Bldg. (1st Flr.), SCO 82–83, Sector 17C, Chandigarh 160017 ; D-277, Todar Mal Marg, Jaipur 302006; 5–8–56/57, L. N. Gupta Mrg., Hyderabad 500001 ; 117/418-B Sarvodaya Nagar, Kanpur 208005 ; B.C.I. Bldg. (3rd Floor), Gandhi Maidan East, Patna 800004 ; Hantex Bldg. (2nd Floor), Railway Station Rd., Trivandrum 695001.

Aims and Objects : Preparation of standards relating to products, commodities, etc. and their promotion on national & intnl. basis. The Insttn. operates, under an Act of Parliament, ISI Certification Marks Scheme under which items manufactured in conformity with the relevant Indian Standards are certified with ISI Mark as a third-party assurance to the purchaser. The Insttn. also assists in developing in-plant standardization in industrial units, promotes ednl. utilization of Indian Standards, and imparts trg. in industrial standardization to scientists & technologists from developing countries.

Director General : Dr. A. K. Gupta.

Indian Telephone Industries Ltd., Dooravani Nagar, Bangalore 560016, Karnataka.

Regional Offices, Sales & Service : 62/63, " Advent ", 12-A, Gen. J. R. Bhosale Marg, Bombay 400021 ; United India Life Assurance Bldgs., 22, Chittaranjan Ave., Calcutta 700013 ; 3, Tolstoy Marg, New Delhi 110001 ; 8A, Greames Rd., Madras 600006.

The ITI is a multiunit industrial complex having nine units in operation : four at Bangalore, two at Naini and one each at Srinagar, Rae Bareli and Palghat. The ITI manufactures all types of telecommunication equipment — telephone instruments, automatic exchanges of Strowger, Crossbar and Electronic types, long distance transmission equipment, microwave equipment, specialised equipment for Railways and Defence, electronic measuring instruments, automatic road traffic signals etc.

Chairman & Mg. Director : C. S. S. Rao.

Indo Burmah Petroleum Co. Ltd., Gillander House, Netaji Subhash Rd., Calcutta 700001.

Chairman & Mg. Director : Atma Prakash Verma.

Industrial Credit Co. Ltd., 4, Scindia House, New Delhi 110001.

Industrial Credit & Investment Corpn. of India Ltd., 163, Backbay Recl., Bombay 400020.

Regional Offices : 20, Old Court House St., Calcutta 700001 ; 1, Cenotaph Rd., Madras 600018 ; Hindustan Times House, 18-20, Kasturba Gandhi Marg, New Delhi 110001.

Functions : To assist industrial enterprises by providing finance in both rupee and foreign currencies in the form of long or medium-term loans or equity participation, sponsoring and underwriting new issues of shares and securities, guaranteeing loans from other sources, furnishing managerial, technical and administrative advice to Indian industry.

Chairman : James S. Raj ; *Mg. Director :* S. S. Mehta.

Industrial Development Bank of India, Jolly Maker Chambers No. 1, Nariman Point, Bombay 400021.

Regional Offices : Central Bank of India Bldg., Lal Darwaja, P. B. No. 209, Ahmedabad 380001 ; Apeejay House, 15, Park St., Calcutta 700016 ; Sethi Trust Bldg., Bhangagarh, G. S. Rd., Gauhati 781005 ; Tamil Nadu State Co-op. Bank Bldg., [illegible], N.S.C. Bose Rd., P.B. [illegible], Madras 600001 ; Red Cross Society Bldg., Red Cross Rd., New Delhi 110001 ; *Branch Offices* ; Bangalore, Bhopal, Bhubaneshwar, Chandigarh, Cochin, Hyderabad, Jaipur, Jammu, Kanpur, Patna and Vadodara.

Functions : (*a*) To co-ordinate the activities and to supplement the resources of other financial institutions, including banks ; (*b*) to provide direct assistance to industrial concerns ; (*c*) to plan and promote industries of key significance to the industrial structure, and (*d*) to adopt and enforce a system of priorities in promoting future industrial growth especially in backward areas.

Under the new industrial policy, IDBI has been designated as the Central Co-ordinating agency to co-ordinate the working of institutions engaged in promotion, development and financing of tiny, small and village industries.

The restructured IDBI has introduced new schemes including scheme for refinance assistance to SIDCs, seed capital assistance and soft loan assistance to selected industries.

The IDBI's assistance upto December 1977 aggregated Rs. 27,994 million (disbursed Rs. 18,200 million).

Chairman & Mg. Director : J. N. Saxena ; *Exec. Directors :* D. P. Gupta, M. R. B. Punja.

Industrial Finance Corpn. of India, *Head Office :* Bank of Baroda Bldg., 16, Parliament St., New Delhi 110001.

Regional Offices : Regent Chambers, Backbay Reclm., Bombay 400021 ; 4, Mangoe Lane, Calcutta 700001 ; 14, Sterling Rd., Nangambakkam, Madras 600034 ; Red Cross Bldg., 1, Red Cross Rd., New Delhi 110001. *Branch Offices :* IFC Bhavan, 3-6-15, Himayatnagar, Hyderabad 500029 ; IFC Bhavan, [illegible] Rd., Ahmedabad 380009 ; 22, M. Gandhi Rd., Bangalore 560001 ; Upper India Chambers of Commerce Bldg., 14/69, Civil Lines, Kanpur 208001.

Functions : It supplies medium and long-term capital to both private and public limited companies and co-operative societies incorporated and registered in India. The facilities offered by IFCI include : (*a*) Granting of loans in rupees and foreign currencies ; (*b*) Guaranteeing deferred payments for machinery and for foreign currency loans ; (*c*) Subscribing to and underwriting of equity, preference and debenture issues.

Chairman : Baldev Pasricha ; *General Manager :* M. S. Nagratha.

Industrial Reconstruction Corpn. of India Ltd., 19, N. Subhas Rd. (2nd Fl.), Calcutta 700001.

Rep. Office : Vandhna, 11, Tolstoy Marg, New Delhi 110001.

Functions : It has been set up jointly by the Govt. of India, Reserve Bank of India, IDBI and other leading financial institutions as well as nationalised banks in the country. It aims at promoting industrial development of the country through establishment, maintenance, development, expansion, re-organisation, diversification, rationalisation, modernisation of industrial concerns. Initially it has restricted its activities to the rehabilitation of sick and closed industrial units.

Chairman & Managing Director : R. V. Raman ; *General Manager :* B. G. Roy.

Instrumentation Ltd., Kota 324005, Rajasthan.

The largest manufacturers of Industrial Process Control Instruments in India. The product-mix of the company includes a variety of sensors and transmitters, indicating, controlling and recording instruments for the measurement of temperature, pressure, flow, level and other process variables in different measuring systems such as magneto-electric, electronic, ferrodynamic and the pneumatic range of products.

Manufacture of control valves and allied items with technical collaboration of Japan has gone into production at the company's second unit at Palghat (Kerala).

Under its diversification scheme an agreement for manufacture of gas analysers in the line of pollution control instruments has been signed with Messrs. Hartmann & Braun of West Germany and production has commenced. A technical assistance and know-how agreement has also been signed with Messrs. George Kent of U.K. under its modernisation programme which covers the introduction of electronic loop instruments and pneumatic instruments with unified current output.

The company provides specialised turn-key services of instrumentation to steel plants, thermal power stations, fertilizer and chemical based plants and other process industries. It has developed capabilities to design, fabricate, erect and commission instrumentation systems with indigenous know-how.

Mg. Director : Y. Nirula.

Integral Coach Factory, Perambur, Madras 600038.

This factory was constructed in 1952 in collaboration with Swiss Car and Elevator Manufacturing Corporation Limited, Schlieren, Zurich, Switzerland.

The factory meets the major requirement of passenger coaches of the Indian Railways. It consists of two divisions, Shell and Furnishing. The output is 750 coaches per annum. So far the factory has turned out over 12,[illegible] coaches of about 70 different types.

The factory has also exported bogies to Burma, Thailand and Taiwan and coaches to Philippines, Zambia and Tanzania. Order for export of coaches to Uganda, Philippines and Nigeria are under execution.

General Manager : L. R. Gosain.

International Airport Authority of India (See Chapter on Civil Aviation).

Iron Ore Board, 9th Fl., Vandhna, 11, Tolstoy Marg, New Delhi 110001.

An autonomous organisation set up by the Govt. to ensure proper regulation, conservation and development of iron ore. It advises steps to be taken to promote exports of iron ore consistent with resources and requirements of steel industry. It will co-ordinate the activities of the steel plants and mining agencies in both the public and private sectors and will also render an infrastructure for iron ore mining in liaison with railways, ports, State Governments and financial institutions.

Chairman : Vacant.

ISRO Satellite Centre (ISAC), A 1-6, Peenya Electronic Industrial Estate, Peenya, Bangalore [illegible], set up under the **Indian Space Research Organisation** of the Department of Space, Government of India, to design, develop and fabricate artificial earth satellites for activities related to space science and applications. The first Indian Satellite 'Aryabhata' designed and fabricated at this place has been successfully launched using a Soviet rocket from Soviet Union on April 19, 1975. This satellite which has, since then, been orbiting the earth with all its technological systems functioning according to the design calculations, has successfully accomplished the primary mission goal of developing indigenous satellite making capability. This Centre is presently engaged in the fabrication of a 400 kg. earth observation satellite as a first step towards evolving an operation satellite system for the optimal management of the country's natural resources. The project for an experimental geostationary communication satellite, of 600 kg. weight class, has been initiated to develop competence in the area of operational satellite technology. Also as a part of the indigenous satellite launch vehicle development programme, the Centre is engaged in the design and development of a 40 kg. 'Rohini' satellite.

Director : Prof. U. R. Rao.

Jessop & Co., 63, N. Subhas Rd., Calcutta 700001.

Manufacturers of structural and bridge steel work, railway wagons and coaches, electric multiple unit coaches, machine tools, leaf and coil springs, vibratory rollers, aerial ropeways, earth moving equipment, all types of cranes, road rollers etc.

Chairman & Mg. Director : P. K. Banerji.

Jute Corpn. of India Ltd., 1, Shakespeare Sarani, Calcutta 700071.

Regional Offices : In West Bengal : New Poddar Bldg., N. N. Rd., Cooch-Behar 736101; Bengal Silk Co-op. Bldg., Bund Rd., P. O. & Dist. Malda 732101; Hill Cart Rd., Siliguri 734401, Darjeeling Dist.; 26/13, S. S. Sen Rd., Gorabazar, Berampore 742101 Murshidabad Dist.; 35, R. N. Tagore Rd., P. O. Krishnagar 741101, Nadia Dist.; 8/1, G. T. Rd., P.O. Baidya Bati, Shewraphuli 712223, Hooghly Dist. *In Bihar :* NH-31, Purnea. *In Assam :* Zoo Rd., Near Commerce College, Gauhati 781021; Ward No. 2, Elliot Rd., Dhubri, Goalpara Dist., Amalapatty, Nowgong 782001. *In Andhra Pradesh :* Opp. S.B.I., M. Gandhi Rd., Vizianagaram 531201. *In Orissa :* Haripriya Bhawan, Dalmundai, Cuttack 753009. *In Tripura :* Krishnagar, B.K. Rd., P.O. Agartala 799001.

Functions : (*i*) to undertake price support operations in respect of raw jute, (*ii*) to ensure remunerative prices to the growers through judicious commercial operations and improvements in the marketing of raw jute, (*iii*) to operate a buffer stock in raw jute in order to stabilise the prices of raw jute, (*iv*) to undertake import and export of raw jute and (*v*) to export jute goods and undertake their export promotion.

Chairman : N. S. Viadyanathan; *Mg. Director :* G. Ukil.

Kolar Gold Mining Undertakings

(See Bharat Gold Mines Ltd. in this list).

Kudremukh Iron Ore Co. Ltd., 25, M. Gandhi Rd., Bangalore 560001. *Project Office :* Kudremukh (Malleswara), Via Kalasa 577124, Chikmagalur Dist., Karnataka.

Functions : A contract for the sale of 150 million tonnes of concentrates over a period of 20 years has been entered into with Iran, which will fetch an estimated total foreign exchange earnings of over 3,300 million U.S. dollars.

Chairman-cum-Mg. Director: K. C. Khanna.

Lagan Jute Machinery Co. Pvt. Ltd., 24B, Park St., Calcutta 700016, (Acquired by Central Govt. in July 1978).

Lubrizol India Ltd. (*See Chapter on Petroleum Industry*).

Machine Tool Corpn. of India Ltd., Beawar Rd., Ajmer 305001, Rajasthan.

Functions : Under this project, a total of 680 Grinding Machines and a large variety of special accessories at full rated capacity valued at about Rs. 44 million are expected to be manufactured every year. The Company's plant will provide employment to approximately 1,700 persons and will also give plenty of scope for the development of ancillary industries in and around Ajmer.

Chairman : Dr. S. M. Patil; *Executive Director :* R. N. Malhan.

Machine-Tool Prototype Factory, Ambernath 421502, Maharashtra.

Estd. 1953. The Factory, apart from meeting vital defence requirements, has established production of several types of precision machine tools.

General Manager : G. D. Bhalla.

Madras Fertilizers Ltd., Manali, Madras 600068. Production capacity 160,000 tonnes of nitrogen and 100,000 tonnes of phosphates. It is a joint venture in which the Govt. of India holds 51 per cent of the equity capital while the remaining 49 per cent is equally shared between Amoco India Inc. of USA and the National Iranian Oil Co. of Iran.

Chairman : V. Arunachalam; *Mg. Director :* Dr. Easo John.

Madras Refineries Ltd., 122-D, Mount Rd., Madras 600006.

Mandhar Cement Factory, Mandhar 493111, Near Raipur, Madhya Pradesh.

For details see Cement Corporation of India in this list.

Chief Executive : B. V. Raju.

Mandya National Paper Mills Ltd. (Subsidiary of HPCL), Belagula 571606, Karnataka.

The Mill is based on sugarcane bagasse and is the only mill in the country to manufacture fine grades of writing and printing papers using more than 90% of bagasse pulp. Under the expansion scheme, the rated capacity is expected to be increased to 16,500 tonnes per annum.

Chairman : M. L. Zutshi; *Gen. Manager :* P. Rajaram.

Manganese Ore (India) Ltd., 3, Mount Rd. Ext., P.O. 34, Nagpur 440001.

The Company at present operates its manganese mines in Nagpur and Bhandara Districts of Maharashtra, Balaghat District of Madhya Pradesh, Keonjhar District of Orissa and Adilabad District of Andhra Pradesh. The Company in addition operates one mine through a Miner's Cooperative in Nagpur District. The Company has plans to extend its activities in other minerals and also in processing industries.

Chairman-cum-Mg. Director : O. P. Vasudeva.

Mazagon Dock Ltd., Dockyard Rd., Bombay 400010.

A ship-building, ship-repair and general engineering concern the company can build various types of ships—like frigates, corvettes, submarines, passenger ships, passenger-cum-cargo ships, dredgers, tugs, barges, trawlers, etc. —up to 27,000 dwt. It has four building berths, three dry docks and an impounded wet dock Kasara Basin.

The first leander class frigate I.N.S. Nilgiri has been delivered to the Navy in 1972. The second frigate I.N.S. Himagiri was delivered on 23-11-74, the third frigate I.N.S. Udaygiri on 18-2-76, the fourth frigate I.N.S. Dunagiri on 5-5-77 and the fifth and sixth frigates I.N.S. Taragiri and I.N.S. Vindyagiri are being fitted out. The company has also built for the Navy a bucket dredger, two inshore minesweepers, two *Arcat* tankers (designed to carry aviation fuel) and several other ships and harbour crafts.

The company has also received orders for ship construction from abroad. These include 76 barges for Iran, 8 barges for Yemen, one barge for Saudi Arabia, 2 water carriers for Iranian Navy, 2 cargo vessels for Singapore and 6 cargo vessels for U.K.

The company's production turn-over rose from Rs. 163·61 million in 1970-71 to Rs. 540 milion in 1976-77.

Chairman and Mg. Director : Vice-Admiral N. P. Datta ; *Director (Commercial) :* N. K. Sawhney, I.N. (Retd.).

Metal Scrap Trade Corpn. Ltd., 225F, A. J. Bose Rd., Calcutta 700020. (A subsidiary of Steel Authority of India).

Functions : Canalised iron and steel scrap importer and exporter as well as canalised importer of old ships for breaking, with diversified activities in other allied fields.

Mg. Director : Shri Rup Rai.

Metallurgical & Engineering Consultants (India) Ltd., P. O. Hinoo, Ranchi 834002, Bihar.

MECON (formerly Central Engg. & Design Bureau of Hindustan Steel Ltd.), is fully equipped to undertake the design and supply of custom-built rolling mills and auxiliary equipment for metallurgical industries, technical consultancy and detailed engineering for ferrous and non-ferrous metallurgical and chemical industries.

Chairman-cum-Mg. Director : K. C. Mohan.

Mica Trading Corpn., 137, Patliputra Colony, Patna 800013.

Functions : A subsidiary of Minerals & Metals Trdg. Corpn. of India Ltd., it handles purchase and exports of mica and development of mica based industries.

Regional Offices : At Calcutta, Madras and Giridih (Bihar) ; *Sub-regional Offices :* At Jhumritelaiya (Bihar), Gudur (Andhra Pradesh) and Bhilwara (Rajasthan).

Chairman & Mg. Director : M. K. Majumdar.

Mineral Exploration Corpn. Ltd., Seminary Hills, Nagpur 440006.

Regional Offices : B-192, University Marg, Bapu Nagar, Jaipur [illegible] ; A-[illegible], Sector 'C', Mahanagar, Lucknow 226006 ; 8/5, Alipur Park Rd., Calcutta 700027 ; 10-2-7, A.C. Guards, Hyderabad 500004.

Functions : To carry out detailed exploration of mineral deposits in the country for proving and assessing grade-wise reserves of minerals.

Chairman & Mg. Director : K. S. Mahapatra.

Minerals & Metals Trading Corpn. of India Ltd., Express Bldg., 9 & 10, Bahadur Shah Zaffar Marg, New Delhi 110001.

Functions : It undertakes export of iron ore, manganese ore, ferro-manganese, mica, coal and other minor minerals and import of steel, non-ferrous metals, rough diamonds, fertilizers etc. for supply to industrial units in the country. The Corporation has eight regional offices at Bombay, Calcutta, Madras, Visakhapatnam, Vasco-da-Gama, Cuttack, Haldia & Malda and foreign offices in Tokyo (Japan) and Warsaw (Poland).

Chairman : C. S. Swaminathan.

Mining & Allied Machinery Corpn. Ltd., P.O. Durgapur 713210, West Bengal ; *Branch Offices :* 77, Park St., Calcutta 700016 ; Chanakya Bhavan, Chanakyapuri, New Delhi 110021.

Chairman & Mg. Director : P. C. Luthar.

Mishra Dhatu Nigam Ltd., Kanchanbagh, Hyderabad 500258.

To set up a special metals and superalloys plant to manufacture nickel and cobalt base superalloys, high strength iron alloys, titanium and titanium alloys, controlled expansion alloys, thermostatic bimetals, high elastic modulus alloys, hard and soft magnetic alloys and tungsten and molybdenum products required by aircraft, electronic and other sophisticated industries. The plant is expected to go into production in 1979.

Chairman & Mg. Director : Dr. [illegible]

Modern Bakeries (India) Ltd., 25-B, Local Shopping Centre, Pashchimi Marg, Vasant Vihar, New Delhi 110057.

It was registered in October, 1965 and has 14 bakery units at Ahmedabad, Bangalore, Bombay (2), Calcutta (2), Chandigarh, Cochin, Delhi (2), Hyderabad, Kanpur, Madras and Ranchi and a research and development unit in Delhi. The capacity of each unit is about 40,000 loaves of 400 grams per day excepting those of Bombay, Calcutta and Delhi where the rated capacity is 78,000 loaves of 400 grams per day. Bun plants have been set up at Bombay, Cochin and Calcutta with a rated capacity of 125,000 buns per day.

New units are being set up at Indore (commenced production since May 1978), Bhubaneswar, Jaipur and Gauhati.

All the bakery products produced by the Company are fortified with Vitamin A, Vitamin B Complex (Riboflavin, Thiamine & Niacin), Iron and Protein Isolate.

Recently, the Company has entered in the beverage industry and has introduced a new soft drink " Double Seven " " 77 " based on a concentrate developed by the Central Food Technological Research Instt., Mysore.

Chairman : R. S. Pal, I.A.S. ; *Mg. Director :* Brig. C. C. Uthup.

Mogul Line Ltd., 16, Bank St., Bombay 400023.

Operates Haj pilgrim service between Bombay and Jeddah, regular cargo-cum-passenger service between Bombay and Red Sea ports, Bombay and West Asia gulf ports, cruises to Malaysia and Singapore, Konkan passenger service, coastal cargo services and overseas tramp service. (Tonnage : 304,933 DWT.)

Chairman : Rear Admiral Krishan Dev ; *Mg. Director :* J. G. Saggi.

Nagaland Pulp & Paper Co. Ltd., P. B. 18, Jorhat, Assam.

National Buildings Construction Corpn. Ltd., Vishal Bhawan, 95, Nehru Place, New Delhi 110024.

Functions : (*a*) To undertake civil construction works in India and abroad ; (*b*) to improve the quality of construction works ; (*c*) to bring down construction costs ; (*d*) to take up construction work in border areas and inacessible places where private contractors quote fancy rates ; and (*e*) to take on the responsibility for supervising the works in such a way that the clients reduce their supervisory engineering personnel so as to bring down the ultimate construction costs.

The Corporation has set up a mechanised brick plant in Delhi to produce over 30 million bricks per year.

Mg. Director : P. P. Dharwadkar.

National Co-operative Development Corpn., Eros Apts., 56, Nehru Place, New Delhi [illegible].

Regional Offices : 8, Council House St., R.B.I. Bldg., Calcutta 700001 ; 8, Cunningham Rd., Bangalore 560052 ; M.P. State Co-op. Bank Bldg., New Market, T.T. Nagar, Bhopal 462003 ; Rd. No. 1, Yarpur, Patna 800001 ; [illegible]24, Sahawas, Shivajinagar, Pune 411005 ; Pachhi House, SCO No. 98-100, Sector 17D, Chandigarh 160017; Jashwanta Rd., Panbazar, Gauhati 781001; Lakhi Niwas, Hawa Sarak, Civil Lines, Jaipur 302006.

Functions : To plan and promote programmes for the production, processing, marketing, storage, export and import of agricultural produce, food stuffs and notified commodities through co-operative societies. The programmes for development of the consumer sector and handlooms have also been taken up.

Mg. Director : V. B. L. Mathur.

National Dairy Development Board, Anand 388001, Gujarat.

To speed up the overall development of milk production, procurement, processing and marketing in the country, the Board offers (*a*) technical services for development of dairy and allied projects; (*b*) man-power development services; (*c*) bulk procurement services; (*d*) specialised dairy engineering services; (*e*) consultation services on dairy and allied operations and (*f*) international liaison.

Chairman : Dr. V. Kurien.

National Fertilizers Ltd., 20, Community Centre East of Kailash, New Delhi 110024.

Responsible for implementing, owning and operating the fertilizer projects at Bhatinda (Punjab) and Panipat (Haryana). These projects will have an installed capacity of 0·235 million tonnes of nitrogen per annum, ammonia plant of 900 tonnes per day and urea plant of 1,550 tonnes of prilled urea per day.

On re-organisation of Fertilizer Industry, Nangal Unit of Fertilizer Corporation of India has been transferred to National Fertilizers Limited with effect from 1–4–78. The main Nangal Project is designed to produce 80,000 tonnes of Nitrogen (Calcium Ammonia Nitrate with 25 per cent Nitrogen) and 14·5 tonnes of Heavy Water annually. The Nangal Expansion Project has a capacity of 232,000 tonnes of Nitrogen per annum.

Chairman : B. B. Singh.

National Industrial Development Corpn. Ltd., P.B. 5212, Chanakya Bhavan, Vinay Marg, New Delhi 110021.

Functions : To render Engineering Consultancy Services by way of detailed design and engineering of complete projects and preparation of detailed project reports. Its fields of specialisation include engg. industries, pulp and paper, electronics, metallurgical and ore handling projects. The services of the Corporation are being made use of by the Central Government, various State Governments, public sector enterprises and private entrepreneurs in India. Its services have also been availed of by the United Nations, foreign governments and entrepreneurs abroad.

Chairman-cum-Mg. Director : K. D. Mariwalla.

National Instruments Ltd., 1/1, Raja S. C. Mullick Rd., Jadavpur, Calcutta 700032.

This company manufactures and repairs precision surveying instruments, meteorological and optical instruments, pressure and vacuum gauges and high precision defence instruments.

Chairman-cum-Mg. Director : S. P. Chatterji.

National Insurance Co. Ltd., 18, Rabindra Sarani, Calcutta 700001.

Chairman-cum-Mg. Director : K. P. Modi.

National Mineral Development Corpn. Ltd., Pioneer House, 6-3-653, Somajiguda, Hyderabad 500004. *Purchase Office :* 13, Camac St., Calcutta 700017; *Regional Offices :* Haroon Manzil, Thompson St., Visakhapatnam 530001; Nirmal Bldg., Nariman Point, Bombay 400021, 10/2, Kasturba Rd., Bangalore 560001; 109, Surya Kiran, K. Gandhi Rd., New Delhi 110001.

Functions : Exploration, development and exploitation of iron ore deposits, diamond mining in the 'Panna' area of Madhya Pradesh and prospecting for other miscellaneous minerals such as Bentonite.

Working Mines : Iron Ore : Bailadila Deposit Nos. 5 & 14, Bastar Dist., Madhya Pradesh; Kiriburu, Singhbhum Dist., Bihar; Donimalai, Bellary Dist., Karnataka; *Diamonds :* Majhgawan and Ramkheria, Panna Dist., Madhya Pradesh.

Mines under Construction : Iron Ore : Meghahatuburu, Singhbhum Dist., Bihar.

Project under Investigation : Iron Ore : Bailadila Deposit Nos. 4, 11-C & 13, Bastar Dist., Madhya Pradesh; Kumarswamy, Bellary Dist., Karnataka; Kiriburu Central Block Deposits, Singhbhum Dist., Bihar; Bababudan Magnetite Deposits, Chickmagalur Dist., Karnataka; Malangtoli, Keonjhar Dist., Orissa.

Consultancy Services : Covering all facets of open cast mining of minerals other than coal.

Mg. Director : C. S. Venugopala Rao.

National Newsprint & Paper Mills Ltd., Nepanagar, Nimar Dist., Madhya Pradesh.

Chairman-cum-Mg. Director : Brahma Swarup, I.A.S.

(Also see Chapter on "Paper Industry".)

National Projects Construction Corpn. Ltd., Raja House, 30-31, Nehru Place, New Delhi 110019.

Functions : To provide the Central and State Governments with an organisation capable of undertaking the execution of river valley projects, industrial structures and allied civil engineering works requiring high technical skill, strict adherence to specifications and quality standards.

Chairman-cum-Mg. Director : S. P. Chugh.

National Research Development Corpn. of India, 61, Ring Rd., Lajpat Nagar III, New Delhi 110024.

Functions : To stimulate development and commercial exploitation of patents and inventions arising from national research efforts and also patented inventions from individuals.

The Corporation also develops scientific research by arranging pilot plant and instituting developmental projects. Till March 1978 the Corporation has instituted 65 projects at a cost of about Rs. 77·5 million.

Chairman : R. S. Bhatt; *Mg. Director :* Dr. C. V. S. Ratnam.

National Seeds Corpn. Ltd., Beej Bhavan, Pusa Complex, New Delhi 110012.

Functions : It is responsible for organising a sound seed industry in India; concentrates on production of foundation seed of promising varieties evolved by research. It also arranges seed testing and seed production training courses.

Mg. Director : T. Balaraman.

National Small Industries Corpn. Ltd., Near Ind. Estate, Okhla, New Delhi 110020.

Functions : To assist, counsel, finance and promote the interest of small industries in the country.

Chairman : Vacant.

National Textile Corpn. Ltd., 8th Fl., Surya Kiran Bldg., 19, Kasturba Gandhi Marg, New Delhi 110001.

Functions : To manage textile mills which may be taken over under the Industries (Development & Regulation) Act, 1951 and under the Sick Textile Undertakings (Taking over of Management) Act, 1972. So far 57 mills have been taken over by the Govt. under the former act and 46 mills under the latter act.

Chairman : K. Sreenivasan; *Mg. Director :* P. P. Singla.

Subsidiary Corporations : National Textile Corpn. (A. Pradesh, Karnataka, Kerala, Mahe) Ltd., 29/2, K. Hanumanthiah Rd., Bangalore 560027; National Textile Corpn. (Gujarat) Ltd., 1791, Ashram Rd., Ahmedabad 380009; National Textile Corpn. (South Maharashtra) Ltd., 15, N. Morarjee Marg, Bombay 400038; National Textile Corpn. (North Maharashtra) Ltd., 15, N. Morarjee Marg, Bombay 400038; National Textile Corpn. (W. Bengal, Assam, Bihar & Orissa) Ltd., 7, J. L. Nehru Rd., Calcutta 700013; National Textile Corpn. (Uttar Pradesh), Ltd., Sylvertex, 14/22, Civil Lines, Kanpur 208001; National Textile Corpn. (Delhi, Punjab & Rajasthan), Ltd., Vandhana Bldg., 11, Tolstoy Marg, New Delhi 110001; National Textile Corpn. (Madhya Pradesh) Ltd., 21, Yeshwant Niwas Rd., Indore 452003; National Textile Corpn. (Tamilnadu & Pondicherry) Ltd., NTC House, P.B. No. 2409, 10/64, Somasundaram Mills Rd., Coimbatore 641009.

National Thermal Power Corpn. Ltd., 1201, Kailash Bldg., 26, Kasturba Gandhi Mrg., New Delhi 110001.

Functions : Set up under the Ministry of Energy to provide an integrated approach to development of thermal power in the country.

Chairman & Mg. Director : D. V. Kapur.

New India Assurance Co. Ltd., New India Assurance Bldg., M. Gandhi Rd., Bombay 400001.

Neyveli Lignite Corpn. Ltd., Neyveli 607801, South Arcot Dist., Tamil Nadu.

This is a Rs. 2,802 million project. The Integrated Project envisages the mining ultimately of about 6·5 million tonnes of lignite per annum, the present rate being about 3·6 million tonnes per annum.

The 600 M.W. Thermal Power Station at Neyveli is the largest and the first lignite fired Thermal Power Station in India and Asia located close to the pit-head.

The Urea Plant at Neyveli is based on gasification of lignite. The feedstock is being changed over to fuel oil. The change over will be completed early in 1979. The Briquetting and Carbonisation Plant at Neyveli produces carbonised briquettes (Trade name: LECO) a smokeless domestic fuel from lignite.

The following tar products are also produced in the B & C plant: tar, neutral oil, carbolic acid (phenol), ortho cresol, meta-para cresols, xylenols and polyvalent phenols.

North Eastern Electric Power Corpn. Ltd., Shillong-Jowai Rd., Laitumkhrah, Shillong 793003, Meghalaya.

Chairman-cum-Mg. Director : S. B. Majumdar.

Optical Glass Plant : Central Glass and Ceramic Research Institute, Calcutta 700032.

The pilot plant located at the Institute produces the different types of optical glass. The plant has supplied till the end of March 1977 optical glass worth approximately Rs. 9 million to consumers.

The process has been released to Bharat Ophthalmic Glass Ltd., Durgapur for production of major types of optical glass.

Director : K. D. Sharma.

Oriental Fire & General Insurance Co. Ltd., Jeevan Udyog, Asaf Ali Rd., New Delhi 110001.

Petrofils Co-operative Ltd., New Delhi House, Barakhamba Rd., New Delhi 110001.

A joint venture of the Govt. of India and weavers' co-op. societies. The plant with an annual capacity of 3,500 tonnes of polyester filament yarn is situated at Jawaharnagar, Vadodara Dist., Gujarat State.

Mg. Director : B. B. Mathur.

Praga Tools Ltd., 6-6-8/82, Kavadiguda Rd., Secunderabad 500003.

The Company produces machine tools and allied accessories, forgings for auto and diesel spares and rail-road components, defence items, etc.

Mg. Director : Brig. T. A. Abraham (Retd.).

Projects & Equipment Corpn. of India Ltd., Hansalaya, 15, Barakhamba Rd., New Delhi 110001.

Formed in April, 1971, as a subsidiary of the State Trading Corporation of India with complete autonomy in its marketing and commercial operations.

Functions : To export engineering, industrial and railway equipment from India; to undertake turnkey jobs abroad and to co-ordinate efforts of public and private sector industries and help them with marketing opportunities abroad, tendering and negotiations, finance and foreign exchange, procurement of raw materials, quality control, delivery schedules, etc.

Chairman : M. M. Luther; *Exec. Directors :* L. K. Dhawan, Suresh Chandra.

Provident Investment Co. Ltd., "Edward Villa", 11-A, Cuffe Parade, Bombay 400005.

Pyrites, Phosphates & Chemicals Ltd., *Registered Office :* Pali Rd., Dehri-on-Sone 821307, Rohtas Dist., Bihar.

Branch Offices : (*i*) Office of the Mg. Director, 6, Community Centre, East of Kailash, New Delhi 110024. (*ii*) Office of the Chief Mining Engineer, Mining Project, P.O. Amjhore 821302, Rohtas Dist., Bihar. (*iii*) Office of the Chief Mining Engineer, Mussoorie Phosphate Project, 1/A-B, New Cantonment Rd., Dehra Dun 248001, Uttar Pradesh. (*iv*) Office of the Project Officer, Mining Project, Saladipura, P.O. Khandela 332709, Sikar Dist., Rajasthan.

Mining Programme : *Pyrites :* (*i*) The mine at Amjhore has been developed to be able to produce 270,000 tonnes per annum of pyrites to feed the acid plant at Sindri. (*ii*) Exploratory-cum-production mining at Saladipura has been undertaken which will block out nearly 3 million tonnes of pyrite ore and provide necessary data for drawing up feasibility report and detailed project report for a major fertiliser complex to be set up in Rajasthan. The consultants, Messrs. R.T.Z. Consultants Ltd. have submitted the feasibility report on Saladipura pyrite deposit, which is under consideration of the Government.

Rock Phosphate : Company is mining rock phosphate at Maldeota and Durmala mines in Dehra Dun District. In view of the good quality of this material for use as phosphatic fertiliser for acidic soils the demand is growing and the expected sales during 1978-79 will be 60,000 tonnes.

Saladipura Mining Project : Exploratory work for exploitation of pyrites deposit is being undertaken to produce 600,000 tonnes of sulphuric acid per annum.

Mg. Director : T. N. Jaggi.

Radio & Electricals Mfg. Co. Ltd., P.B. No. 2606, Mysore Rd., Bangalore 560026. (A subsidiary of Bharat Heavy Electricals Ltd.).

Products Manufactured : Single- & polyphase electricity meters, water meters, paper, electrolytic and polyester capacitors.

Rail India Technical & Economic Services Ltd., New Delhi House, 27, Barakhamba Rd., New Delhi 110001.

Chairman : G. P. Warrier ; *Mg. Director :* P. N. Bhaskaran Nair.

Rajasthan Atomic Power Project. (*See Chapter on " Atomic Energy."*)

Rashtriya Chemicals & Fertilisers Ltd. (RCF), Trombay, Bombay 400074. One of the five companies of the reorganised Fertiliser Corpn. of India Ltd. and National Fertilisers Ltd., RCF will include besides the Trombay complex, the two giant fertiliser plants based on Bombay High gas and also all the marketing operations in the Western and Southern regions.

Chairman & Mg. Director : Duleep Singh.

Rehabilitation Industries Corpn. Ltd., 25, Free School St., Calcutta 700016.

Functions : To create employment opportunities through industries for the displaced persons from Bangladesh and to the migrants from West Pakistan (who have entered Indian territory as a result of the recent conflict with Pakistan), repatriates from Burma and Sri Lanka and persons of Indian origin migrated from other countries with the intention of permanently settling in India.

Chairman : Durga Prasad Chakravorti.

Richardson & Cruddas (1972) Ltd., *Head Office :* Byculla Ironworks, Bombay 400008. *Branch Offices & Works :* L. B. Shastri Marg, Mulund, Bombay 400080 ; Post Box No. 1276, Madras 600001 ; MIDC Ind. Estate, Hingna Rd., Nagpur 440001 ; Hindustan Bldgs., 4, Chittaranjan Ave., Calcutta 700013.

Liaison Office : Surya Kiran, K. Gandhi Marg, New Delhi 110001.

Established in 1858, this company became a wholly owned Government of India Undertaking from 1-4-73.

Product Lines : *Byculla :* Fabricated Steel Structures, Points & Crossings, Rubber & Sugar Machinery and Grey Iron Castings ; *Mulund :* Pressure Vessels, Heat Exchangers & Chemical Processing Equipment ; *Madras :* Structurals, Refrigeration Equipment & Public Health Engineering ; *Nagpur :* Transmission Line Towers.

Chairman & Mg. Director : P. P. Sharangpani.

Rural Electrification Corpn. Ltd., D. D. A. Bldg., Nehru Place, New Delhi 110019.

Functions : (*i*) To finance rural electrification schemes; (*ii*) To subscribe to special rural electrification bonds that may be issued by the State Electricity Boards ; (*iii*) To promote and finance rural electric co-operatives ; (*iv*) To administer the funds received from the Government of India and other sources as grants or otherwise.

Chairman : Dr. B. Venkatappiah.

Salem Steel Plant, SA–150, Rly. West Colony, Salem 636005, Tamil Nadu. (Refer to Steel Authority of India in this list and see also the chapter on Steel Industry.)

Sambhar Salts Ltd., Badnor House, Bhagwandas Rd., P.O. Box No. 146, Jaipur.

(A subsidiary of Hindustan Salts Ltd.).

Scooters India Ltd., P. B. 1, P.O. Sarojininagar, Lucknow 226008.

Commenced production in February, 1975 with present rated capacity 60,000 two-wheeler Vijai Super Scooters and 5,000 three-wheelers per annum.

Chairman & Mg. Director : S. Soundararajan.

Shipping Corpn. of India Ltd., *Registered Office :* Shipping House, 229/232, M. Cama Rd., Bombay 400021.

Branch Offices : CALCUTTA : Shipping House, 13, Strand Rd., Calcutta 700001 ; NEW DELHI : Chandralok Bldg., Janpath, New Delhi 110001 ; MOMBASA : Renmar House, Kilindini Rd., P.B. 82364, Mombasa ; LONDON : 37-39, Lime St., London, EC3M 7AY.

Number of vessels : Cargo vessels 76, passenger-cum-cargo 6, bulk carriers 18, timber carriers 2, bulk coal carriers 3, tankers 21, combination carriers 10, very large crude carriers 2, cattle carrier 1, Total 139.

Total g.r.t.: 2·65 million ; d.w.t. 4·39 million.

Chairman : Dr. Raghunath Singh ; *Vice-Chairman & Mg. Director :* Rear Admiral Krishan Dev.

State Chemicals & Pharmaceuticals Corpn. of India Ltd. (CPC), Chandralok, 36, Janpath, New Delhi 110001

(A subsidiary of State Trading Corpn. of India.)

Chairman : Dr. S. C. Bhattacharjee ; *Mg. Director :* M. N. Misra.

State Farms Corpn. of India Ltd., Beej Bhavan, C.T.O. Bldgs., Pusa Complex, New Delhi 110012.

Functions : To take over the administration of Central State Farms set up primarily for the production of seeds of foodgrains, fibre crops, plantation crops, oil seeds, vegetables, fruits, etc. It also renders the following services : —(*i*) Custom service to private farmers for land levelling, land shaping and soil conservation work on their lands, (*ii*) Repair and servicing of private tractors at the farm workshops, (*iii*) Consultancy service for the benefit of individuals, farms and institutions wanting advice on mechanisation of farms.

Chairman : Mrs. Anna R. Malhotra ; *Gen. Manager :* Dr. K. S. Mann.

State Trading Corpn. of India Ltd., Chandralok, 36, Janpath, New Delhi 110001.

Functions : To broaden and enlarge the scope of Indian exports and to arrange for essential imports on an economical basis. For this purpose S. T. C. has 20 offices abroad.

Chairman : Dr. S. C. Bhattacharjee.

Steel Authority of India Ltd. (SAIL), *Regd. Office :* 14th Floor, Hindustan Times House, 18/20, K. Gandhi Marg, New Delhi 110001.

A holding company set up by the Govt. of India for steel and associated input industries to formulate and recommend to the Govt. a national policy for the development of iron and steel and related input industries and to advise it on all policy and technical matters.

Consequent upon passing of the Public Sector Iron & Steel Companies (Restructuring) and Miscellaneous Provisions Act, 1978 the SAIL now comprises all the Public Sector steel plants namely Alloy Steel Plant, Durgapur and Bhilai, Bokaro, Durgapur, Rourkela and Salem Steel Plants. Hindustan Steel Ltd. (HSL) and SAIL International (SIL) having merged with SAIL have ceased to exist.

Subsidiaries : 1. Indian Iron & Steel Co. Ltd. ; 2. IISCO Stanton Pipe & Foundry Ltd. ; 3. Bolani Ores Ltd. and 4. Metal Scrap Trade Corpn. Ltd. SAIL also holds 40 per cent shares in Visvesvaraya Iron & Steel Ltd. (VISL), Bhadravati.

New Projects : Proposed steel plants at Visakhapatnam and Vijayanagar in Andhra Pradesh.

Chairman : Dr. P. L. Agarwal ; *Vice-Chairmen :* M. P. Wadhawan (*General*), A. C. Banerjee (*Technical*), (*Also see Chapter on ' Steel Industry '*).

Sukinda Nickel Project, (A Joint enterprise of Govt. of India and Orissa State Govt.), 9, Forest Park, Bhubaneshwar 751009, Orissa.

Tannery & Footwear Corpn. of India Ltd., 13/400, Civil Lines, Kanpur 208001.

Functions : It manufactures boot/shoes of all types for civilian and military use under trade name "FLEX". It also manufactures leather, leather goods, leather board, industrial leathers, adhesives, shoe finishes and myrobalan extract powder for tanning and water purification.

The Corporation has the capacity to manufacture about two million pairs of footwear per shift per annum and has a network of wholesale and retail dealers all over India for the sale of its products.

Mg. Director : J. F. Palathinkal.

Tarapur Atomic Power Project. (*See Chapter on 'Atomic Energy'.*)

Tea Trading Corpn. of India Ltd., 225E, Acharya J. C. Bose Rd., Calcutta 700020.

Functions : To promote exports and local sales of tea, to own and manage tea estates, to process and manufacture tea in blended and packaged form.

Chairman & Mg. Director : P. K. Dasgupta.

✓ **Trade Development Authority,** Bank of Baroda Bldg., 16, Parliament St., New Delhi 110001.

Established to promote selective development of exports of non-traditional products. In discharge of this function, TDA identifies technically competent and commercially viable production units in large, medium and small sectors in the country, assists in the expansion of export oriented production facilities, undertakes product development/adaptation and helps raise the technological levels of selected industrial exports.

Its current product range includes selected engineering, plastics and consumer items while the market range covers USA, Canada, U.K., Western Europe, Japan, Australia, New Zealand and Yugoslavia.

It provides entrepreneurial guidance, handles enquiries and disseminates information in foreign trade to exporters and other interested parties. Besides regional offices at the Air India Bldg., Nariman Point, Bombay 400021 and at 8, Camac St., Calcutta 700017, it has also set up foreign offices to provide on-the-spot, personalised services. The addresses are : (*a*) 6, Frankfurt/Main, Heiligkreuzgasse 14, W. Germany ; (*b*) 666, Fifth Ave., 53rd St., New York, N.Y. 10019, U.S.A. and (*c*) Atagoyama Bengoshi Bldg., (Room No. 302, 303) 6-7 Atago-Cho, I-Chome, Minato-Ku, Tokyo, Japan.

Executive Director : N. K. Bharadwaj.

Triveni Structurals Ltd., Naini, Allahabad Dist., Uttar Pradesh.

It is a joint enterprise of Government of India and Messrs. Voest, Linz, Donau, Austria. The main products of the works are : Building structures, towers, bridges, pressure vessels, penstocks and storage tanks, crucibles, blast furnace and plate work, hydraulic structures, cranes, mechanical equipment, material and passenger ropeways, compost plants, water treatment plants, cement and dairy plant equipments.

Mg. Director : P. P. Sharangpani.

Tungabhadra Steel Products Ltd., P.O. Tungabhadra Dam 583225, Bellary Dist., Karnataka. It is a joint venture of Govt. of India and Govts. of Karnataka and Andhra Pradesh.

Production : Steel structures, including gates, hoists, gantries, penstocks and rubber seals required for river valley projects, cranes, pressure vessels, heavy structurals and galvanised high tension transmission line towers.

A galvanising plant with a capacity of 3,000 tonnes per annum working in a single shift has been commissioned. The company has its own design branch, grey iron foundry, rubber seal section, X-ray and photographic section.

Chairman : G. V. S. Mani ; *Mg. Director :* Y. Adinarayana Sastri.

United India Fire & General Insurance Co. Ltd., 24, Whites Rd., Madras 600014.

Chairman-cum-Mg. Director : Ashok Goenka.

Unit Trust of India, ***Head Office :*** **Bombay Life** Building, 45, V. Nariman Rd., Bombay 400023.

Regional Offices : 9, Mathew Rd., Bombay 400004 ; R.B.I. Bldg., 6, Parliament St., New Delhi 110001 ; 4, Fairlie Place, Calcutta 700001 ; Regina Mansion, 8, Second Line Beach, Madras 600001.

Functions : It pools the savings of the community and invests them in securities of various types. To pool the savings, the Trust sells 'units'. All units rank equal for the distribution of income, regardless of when they are acquired. The Trust offers one other important and unique advantage : it is always ready both to sell and buy its units at prices published by it. A Unit holder is thus assured complete liquidity for his investment.

Some Salient Features : Besides the Trust's offices at Bombay, Calcutta, Delhi and Madras, units are on sale at branches of leading banks and at post offices throughout the country. Units can also be obtained through 'approved' brokers on the recognised stock exchanges and individual agents appointed by the Trust.

The Trust is exempt from payment of income-tax and other taxes on income.

The Trust paid a dividend of 9 per cent for 1976-77.
Chairman : G. S. Patel.

Uranium Corpn. of India Ltd., P.O. Jaduguda Mines 832102, Singhbhum Dist., Bihar.

Functions : It is a wholly-owned Government of India enterprise under the Department of Atomic Energy. Its objectives are to provide the uranium requirements for the Atomic Energy Programme of the country. The Corporation is to mine and process uranium ore and other ores and minerals containing uranium in any form. It also produces copper, molybdenum and magnetite concentrates as bye-products.

Chairman : Dr. Brahm Prakash ; *Mg. Director :* M. K. Batra.

Wagon (India) Pvt. Ltd., 10B, Atma Ram House, 1, Tolstoy Marg, New Delhi 110001.

A co-ordinating authority between Govt. of India, Railway Board and various wagon builders.

Chairman & Mg. Director : Dr. M. Srinivasan.

Water & Power Development Consultancy Services (India), Ltd., 26, Kasturba Gandhi Marg, New Delhi 110001.

Chairman & Mg. Director : O. P. Chadha.

Zenith Assurance Co. Ltd., Mehta House, Apollo St., Bombay 400001.

STATE GOVERNMENT UNDERTAKINGS

ANDHRA PRADESH

Agro Pumpsets & Implements Ltd., 10-2-3, Intekhabmanzil, A.C. Guards, Hyderabad 500004.

A marketing organisation set up by the A. P. State Agro-Industries Corpn. Ltd. with the chief object of standardising oil engines and electric motor pump sets manufactured in the State and arranging their supply to the formers at competitive rates. It also offers good after-sales service facilities to the loanees.

Mg. Director : P. M. Vinayak Rao.

Andhra Pradesh Automobiles Tyres & Tubes Ltd., 3-6-290/18, Hyderguda, Hyderabad 500029.

Chairman : A. Chandra Sekhar, I.A.S. ; *Mg. Director :* A. Valliappan, I.A.S.

Andhra Pradesh Dairy Devpt. Corpn. Pvt. Ltd., Lalapet, Hyderabad 500789.

Mg. Director : S. Santhanam, I.A.S.

Andhra Pradesh Fisheries Corpn. Pvt. Ltd., *Regd. Office :* 8-4-9, Tirumalarao St., Kakinada 533004 ; *Regional Office :* Visakhapatnam 533003.

Chairman : M. S. Sanjeevi Rao ; *Mg. Director :* S. Krishna Murty.

Andhra Pradesh Govt. Power Alcohol Factory, Shakarnagar, Nizamabad Dist.

Chief Executive Officer : P. K. Doraiswamy, I.A.S.

Andhra Pradesh Ind. Devpt. Corpn. Ltd., Parisrama Bhavanam, 5-9-58/B, Fateh Maidan Rd., P.B. No. 1049, Hyderabad 500029.

Chairman : P. Ramchandra Reddy ; *Mg. Director :* K. Jayabharath Reddy, I.A.S.

Andhra Pradesh Industrial and Technical Consultancy Organisation Ltd., 10-2-289/21, Shantinagar Hyderabad 500028. (A subsidiary of the Industrial Devpt. Bank of India).

Chairman : C. S. Pani ; *Mg. Director :* D. Mallikarjuna Rao.

Andhra Pradesh Industrial Infrastructure Corpn. Ltd., 6-2-12/1, Saifabad, Hyderabad 500004.

Chairman : K. Rosaiah ; *Mg. Director :* C. N. Shastry, I.A.S.

Andhra Pradesh Mining Corpn. Ltd., 6-3-672, Panja Gutta, Hyderabad 500004.

Functions : Prospecting and commercial exploitation of some of the important minerals in the State such as Barytes, Asbestos, Copper, Black Granite and Clay. Setting up of mineral based industries with the collaboration of private sector.

Chairman : G. V. Choudhary : *Vice-Chairman & Mg. Director :* L. Malakondayya, I.A.S.

Andhra Pradesh Rayons Ltd., 1-2-597/15, Gaganmahal, Hyderabad 500029.

Manufacturers of Rayon grade pulp.

Mg. Director : Khalid Ansari, I.A.S.

Andhra Pradesh Refractories Ltd., B-1-174, Fateh Maidan Rd., Hyderabad 500004.

Chairman : C. S. Shastry, I.A.S.

Andhra Pradesh Small Scale Ind. Devpt. Corpn. Ltd., 5-10-174, Fateh Maidan Rd., Hyderabad 500004.

Chairman : K. S. Subba Rao : *Vice-Chairman & Mg. Director :* K. S. R. Murthy, I.A.S.

Andhra Pradesh State Agro Industries Corpn. Ltd., Intekhab Manzil, 10-2-3, A.C. Guards, Hyderabad 500004.

Vice-Chairman & Mg. Director : Narendra Luther, I.A.S.

Andhra Pradesh State Civil Supplies Corpn. Ltd., 5-9-35/5, Bashir Bagh, Hyderabad 500029.

Mg. Director : R. K. R. Gonela, I.A.S.

Andhra Pradesh State Construction Corpn. Ltd., 6-3-1119, Begumpet, Hyderabad 500016.

Chairman : M. Gopal Rao ; *Mg. Director :* R. C. Rao.

Andhra Pradesh State Film Devpt. Corpn. Ltd., Gruhakalpa, Mukharamjahi Rd., Nampally, Hyderabad 500001.

Functions : Established in October 1975 to grant loans for construction of studios and cinema halls and to start its own unit for producing documentary films of educative value.

Mg. Director : Smt. Sri Rajyam Sinha.

Andhra Pradesh State Financial Corpn., 5-9-194, Chirag Ali Lane, Hyderabad 500001.

Chairman : K. L. N. Prasad ; *Mg. Director :* C. Srinivasa Sastry, I.A.S.

Andhra Pradesh State Irrigation Devpt. Corpn. Ltd., 7-1-46, Begumpet, Hyderabad 500016.

Chairman : A. P. Ranganatha Swamy ; *Mg. Director :* P. V. R. K. Prasad, I.A.S.

Andhra Pradesh State Seeds Devpt. Corpn. Ltd., 11-5-471/1, Red Hills, Hyderabad 500004.

Chairman : B. Pratap Reddy, I.A.S. ; *Mg. Director :* N. V. Rajarao.

Andhra Pradesh State Textile Devpt. Corpn. Pvt. Ltd., Posnett Bhavan, Tilak Rd., Hyderabad 500001.

Functions : To provide various facilities to weavers for producing exportable variety of cloth, undertaking execution of large scale orders of readymade handloom and leather garments for export.

Mg. Director : K. Chakravarthi, I.A.S.

Andhra Pradesh State Trading Corpn. Ltd., 5-10-174, Fateh Maidan, Hyderabad 500004.

Chairman : Kota Punnaiah ; *Mg. Director :* K. Umapathy, I.A.S.

Andhra Pradesh State Warehousing Corpn., D.B.R. Mills, Kavadiguda, Secunderabad 500005.

Andhra Pradesh Steels Ltd., 3-6-111/8, Himayatnagar, Liberty Rd., Hyderabad 500029.

Producers of mild steel, high carbon and spring steel continuously cast billets.

Executive Director : R. Ramaseshaiah.

Government Ceramic Factory, Gudur, Nellore Dist.

The factory produces sanitaryware and L.T. Electrical Insulators.

Hyderabad Chemicals & Fertilizers Ltd., 10-2-3, A. C. Guards, Hyderabad 500040.

Factory : Maula Ali, Hyderabad 500040.

Manufactures *Acids :* (1) Sulphuric acid commercial grade, (2) Battery grade acid. (3) Alum ferric, (4) Superphosphate, (5) Mixed fertilizers for all food and cash crops.

Chairman : M. Narendra Reddy ; *Mg. Director :* Narendra Luther, I.A.S.

Indo-Nippon Precision Bearings Ltd., Moula Ali, Hyderabad 500040.

Taken over in 1969 by the Govt. of Andhra Pradesh to manufacture ball, taper & cylindrical roller bearings including railway journal bearings in collaboration with Koyo Seiko Co. Ltd., Osaka (Japan). The factory was inaugurated in Aug. 1970. Presently, it produces 2·5 million pcs. of bearings against the licensed capacity of 2·678 million pcs. per annum.

Chairman & Mg. Director : P. K. Doraiswamy, I.A.S.

Leather Ind. Devpt. Corpn. of Andhra Pradesh Ltd., 3-6-150, Himayatnagar, Hyderabad 500029.

Chairman : C. Rajanarasimha ; *Vice-Chairman & Mg. Director :* L. Mala-Kendayya, I.A.S.

Nizam Sugar Factory Ltd., B-1-174, Fateh Maidan Rd., Khairatabad, Hyderabad 500004.

Chairman & Mg. Director : P. Prabhakar Rao, I.A.S.

Republic Forge Co., Ltd., Moula Ali, Hyderabad 500040.

The Company manufactures open forgings and precision drop forgings for Railways, automobiles, Defence, high pressure vessels and fertiliser plants.

Chairman : B. C. Gangopadhyaya ; *Mg. Director :* G. K. Reddy.

Singareni Collieries, P.O. Kothagudem Collieries, 507101, Khammam Dist.

Coal is mined from the coal fields at Kothagudem, Yellandu, Manuguru, Belampalli, Mandamari, Ramakrishnapur and Ramagundam.

The Coal Chemical Complex of the collieries is at Naspur in Adilabad District.

Chairman-cum-Mg. Director : B. N. Raman, I.A.S.

Sponge Iron India Ltd., 3-6-185/2, Hyderguda, Hyderabad 500029.

The Company is setting up a 30,000 tonnes per annum capacity sponge iron plant at Paloncha in Khammam District.

Chairman : M. Venkataratnam, I.A.S.

ASSAM

Assam Agro-Industries Devpt. Corpn. Ltd., Ulubari, Gauhati 781007.

Functions : To assist farmers in modernising their cultivation and to provide farm machinery on rent to those farmers ; to undertake setting up of and to assist entrepreneurs in setting up agro-based industries. The activities of the Corporation cover the States of Assam, Meghalaya and Nagaland and the territories of Tripura, Manipur, Arunachal Pradesh and Mizoram.

Mg. Director : R. K. Baruah.

Assam Conductors & Tubes Ltd., Bamuni Maidan, Gauhati 781021.

Chief Executive Officer : S. M. Rehman.

Assam Financial Corpn., G. S. Rd., Ganeshguri Charali, Gauhati 781005.

Functions : To contribute to the industrialisation of the State of Assam, Meghalaya, Tripura, Manipur and the Union Territory of Mizoram by providing credit (medium and long term) to industries.

Mg. Director : D. P. Hazarika.

Assam Gas Co., Ltd., Duliajan 786602, Dibrugarh Dist. Utilisation and distribution of natural gas available from the oil and gas fields in Assam as feedstock for petrochemical industries and as industrial fuel for production of power, manufacture of fertiliser and tea through a compressor-pipeline network.

Chairman : M. N. Phukan ; *Gen. Manager :* D. N. Acharya.

Assam Glass Ind. Ltd., Kahlipara, Gauhati 781016.

Assam Govt. Construction Corpn. Ltd., Rupnagar, Gauhati 781005.

Chairman : Dulal Chandra Baruah ; *Mg. Director :* K. D. Lahkar.

Assam Govt. Marketing Corpn. Ltd., Naojan Rd., Uzanbazar, Gauhati 781001.

Mg. Director : A. C. Changkakoti, A.C.S.

Assam Hills Small Ind. Devpt. Corpn. Ltd., Zoo Rd., Gauhati 781006.

Chairman : P. N. Rau, I.A.S. ; *Mg. Director :* P. C. Mahanta, A.C.S.

Assam Industrial Devpt. Corpn. Ltd., Zoo Rd., Gauhati 781024.

Functions : To promote major and large industrial projects and rendering assistance including share participation to entrepreneurs. *New Projects completed now under production :* (1) Assam Petro-chemicals Ltd. at Namrup, (2) Fertichem Ltd., at Gauhati, a Fertilizer Plant, (3) Cachar Sugar Mill Ltd., at Ratabari, Cachar Dist. *Sick industries now under production :* Assam Conductors and Tubes Ltd., at Gauhati, and Chemical Unit of Associated Ind. (Assam) Ltd. at Chandrapur, Gauhati.

Chairman & Mg. Director : A. K. Saikia, I.A.S.

Assam Petro-Chemicals Ltd., Kannaihal Rd., Silpuri, Gauhati 781003.

Assam Plains Tribes Devpt. Corpn. Ltd., Zoo Rd., Gauhati 781003.

Assam Plantation Crops Devpt. Corpn. Ltd., Zoo Rd., Gauhati 781003.

Assam Seeds Corpn. Ltd., Nawjan Rd., Uzanbazar, Gauhati 781001.

Mg. Director : A. N. Dunarah.

Assam Small Industries Devpt. Corpn. Ltd., Bamunimaidan, Gauhati 781021.

Mg. Director : A. M. Barua, I.A.S.

Assam Spun Silk Mills Ltd., P.O. Jagi Rd., Nowgong Dist.

Assam State Film Finance & Devpt. Corpn. Ltd., Rabindra Bhawan, Ambari, Gauhati 781001.

Assam State Textbook Production & Publication Corpn. Ltd., Panbazar, Gauhati 781001.

Mg. Director : M. C. Talukdar.

Assam State Warehousing Corpn., Shillong 793001.

Assam Tanneries Ltd., Gauhati.

Assam Tea Corpn. Ltd., G. N. Bordoloi Rd., Chandmari, Gauhati 781003.

Chairman : D. Das ; *Mg. Director :* S. K. Datta.

Aseb Meter Works, Short Round Rd., Shillong 793001.

An Assam State Electricity Board enterprise. Manufactures single phase house service meters and polyphase meters.

Cachar Sugar Mill Ltd., Kannachal Rd., Gauhati 781003.

Jyoti Chitraban (Film Studio) Society, Kahilipara, Gauhati 781005.

The basic objective is to encourage private film producers to undertake production of films at the minimum cost. A substantial part of the project has been completed.

The total expenditure involved in the execution of this project amounts to Rs. 2·8 million approximately.

✓ **North Eastern Industrial & Technical Consultancy Organisation Ltd. (NEITCO),** G. N. B. Rd., Bamunimaidan, Gauhati 781021.

Jointly set up by the Central and State level financial institutions. State development corporations and leading banks to provide technical, financial & managerial consultancy services for the industrial development of north eastern region of India.

Chairman : Dr. S. A. Dave ; *Mg. Director :* P. C. Patnaik.

BIHAR

Bacon Factory, Kanke, Ranchi 834007.

General Manager : Dr. B. P. S. R. Singh.

Bihar Hill Area Lift Irrigation Corpn. Pvt. Ltd., Morabadi, Ranchi 834008.

Chairman : S. K. Mukherjee, I.A.S. ; *Mg. Director :* B. Kapthuama, I.A.S.

Bihar Mica Syndicate Ltd., P.O. Jhumri Telaiya, Hazaribagh.

Chairman : K. P. Sinha, I.A.S.; *Mg. Director :* S. Chaudhry, I.A.S.

Bihar Scooters, P. O. Fatwah, 803201, Patna Dist.

The project has been set up by the Bihar State Indl. Devpt. Corpn. Ltd., to manufacture 'Vijeta Supreme' scooters. *Mg. Director :* A. K. M. Hasan, I.A.S. *Project Manager :* Brig. S. K. Patra, AVSM.

✓ **Bihar State Agro-Industries Devpt. Corpn. Ltd.,** Krishi Udyog Bhawan, Sinha Library Rd., Patna 800001.

Chairman-cum-Mg. Director : B. K. Singh, I.A.S.

Bihar State Construction Corpn. Ltd., Boring Canal Rd., Patna 800001.

Bihar State Credit & Investment Corpn. Ltd., Biscomaun Bldg., W. Gandhi Maidan, Patna 800001.

Chairman-cum-Mg. Director : Dr. B. P. Sinha.

✓ **Bihar State Dairy Corpn. Ltd.,** P.O. Veterinary College, Patna 800014.

Chairman : Yashwant Sinha, I.A.S.

Bihar State Export Corpn. Ltd., Biscomaun Bldg., West of Gandhi Maidan, Patna 800001.

Chairman : Yashwant Sinha, I.A.S. ; *Mg. Director :* A. K. Chatterjee, I.A.S.

✓ **Bihar State Financial Corpn.,** Fraser Rd., Patna 800001.

Functions : To provide financial assistance for setting up industrial concerns in the State.

Chairman : Smt. Manorama Panday ; *Mg. Director :* J. S. Sanglura, I.A.S.

Bihar State Food & Civil Supplies Corpn. Ltd., East Boring Canal Rd., Patna 800001.

Chairman : K. P. Sinha, I.A.S. ; *Mg. Director :* J. L. Arya, I.A.S.

✓ **Bihar State Forest Devpt. Corpn. Ltd.,** 27, Pataliputra, Patna 800013.

Mg. Director: J. N. Pandey, I.A.S.

Bihar State Handloom, Powerloom & Handicrafts Devpt. Corpn. Ltd., Udyog Bhavan, East Gandhi Maidan, Patna 800004.

Chairman : Bipin Bihari Sinha ; *Mg. Director :* Y. N. Jha.

✓ **Bihar State Industrial Devpt. Corpn. Ltd.,** Bandar Bagicha, Patna 800001.

Functions : Setting up medium and large scale industries in the public/joint sectors, and giving financial assistance to medium and large scale industries in the private sector. The company has at present ten factories under operation :—Bihar State Superphosphate Factory, Sindri ; High Tension Insulator Factory, Ranchi ; Electric Equipment Factory, Ranchi ; Bihar Spun Silk Mills, Bhagalpur ; Bihar Air Products, Adityapur ; Jute Mill, Kishanganj ; Paper Project, Saharsa ; Malleable Cast Iron Foundry, Ranchi ; Fertilizer Granulation Plant, Sindri ; Scooter Project, Fatwah.

Chairman-cum-Mg. Director : R. K. Sinha, I.A.S.

Bihar State Leather Ind. Devpt. Corpn., Opp. A. N. College, Boring Rd., Patna 800013.

Chairman : N. K. Bhardwaj ; *Mg. Director :* A. R. Swaminathan.

Bihar State Mineral Devpt. Corpn., Raj Hotel, Main Rd., Ranchi 834001.

Chairman : S. K. Mukherjee, I.A.S. ; *Mg. Director :* D. S. Mukhopadhyay, I.A.S.

✓ **Bihar State Small Industries Corpn. Ltd.,** B.C.I. Bldg., East Gandhi Maidan, Patna 800004.

Functions : (*a*) Manufacturing products like bicycles, auto-batteries, locks, agricultural implements, wooden furniture, hosiery goods, roofing tiles, potteries, mechanical toys, leather and leather goods, aluminium utensils, cottage industries and handicraft products and their marketing. (*b*) Management of industrial estates. (*c*) Supply of scarce raw materials to S.S.I. units.

Chairman : Sudama Mishra ; *Mg. Director :* B. N. Singh.

Bihar State Sugar Corpn. Ltd., 189/B, Srikrishnapuri, Patna 800001.

Chairman-cum-Mg. Director : R. K. Srivastava, I.A.S.

Bihar State Superphosphate Factory, P.O. Sindri Institute 828123. Dhanbad Dist.

Installed capacity of plants : (*i*) 10 tonnes of single superphosphate per hour ; (*ii*) 25 tonnes of 98 per cent sulphuric acid per day. At present the factory produces about 18,000 tonnes of superphosphate a year.

A new plant for N. P. K. (granulation) has been installed to produce 36,000 tonnes per annum.

Gen. Manager : D. S. Tewari.

Bihar State Textbook Publishing Corpn. Ltd., White House, Budh Marg, Patna 800001.

Mg. Director : Smt. Krishna Singh, I.A.S.

Bihar State Warehousing Corpn., Boring Rd., Patna 800001.

Chairman : Ansuiya Devi ; *Mg. Director :* M. Anwar.

Bihar State Water Devpt. Corpn., 13, Pataliputra Colony, Patna 800013.

Chairman-cum-Mg. Director : Mohinder Singh.

Bihar Water Devpt. Corpn. Ltd., East Boring Canal Rd., Patna 800001.

Chairman-cum-Mg. Director : N. Nagamani.

Bokaro Industrial Area Devpt. Authority, Bada Bhawan, Balidih, Bokaro Steel City 827010, Dhanbad Dist.

This Authority provides land/shed and infrastructure facilities to entrepreneurs for setting up industries ancillary to Bokaro Steel Ltd., Bharat Coking Coal Ltd., and Fertilizer Corpn. of India Ltd.

Electric Equipment Factory, Tatisilwai, Ranchi 834001.

This factory is a unit of the Bihar State Industrial Development Corporation Ltd.

High Tension Insulator Factory, P.O. Namkum, Ranchi 834010.

This factory has been set up by the Government of Bihar with the technical collaboration of Czechoslovakia. The present installed capacity is 2,400 metric tonnes per annum with the varying range of production as transmission line insulators upto 220 KV, bushings and Pin & Post insulators upto 33 KV besides L.T. Pin, Shackles and Guy insulators.

North Bihar Industrial Area Dept. Authority, P.O. Ramkrishna Ashram, Muzaffarpur 843116.

CHANDIGARH

Chandigarh Small Industries Devpt. Corpn. Ltd., 9-A, Madhya Marg, Sector 7-C, Chandigarh 160017.
Chairman : R. S. Mann, I.A.S., *Mg. Director :* D. V. Bhatia.

DELHI

Delhi Financial Corpn., Saraswati Bhavan, E-Block, Connaught Place, New Delhi 110001.

Functions : To stimulate industrial growth the Corporation advances loans to industrial units set up or to be set up in the Union Territories of Delhi and Chandigarh.

Chairman : B. N. Tandon, I.A.S. ; *Mg. Director :* S. R. Sharma, I.A.S.

Delhi Small Industries Devpt. Corpn. Ltd., A-3/4, State Emporia Bldg., Baba K. Singh Marg, New Delhi 110001.
Chairman : V. Kirti.

Delhi State Industrial Devpt. Corpn. Ltd., N-Block, Bombay Life Bldg., Con. Circus, New Delhi 110001.
Chairman : G. P. Shrivastava ; *Mg. Director :* Omes Saigal.

GOA

Economic Devpt. Corpn. of Goa, Daman & Diu Ltd., Shree Saraswathi Mandir Bldg., 18th June Rd., Panaji 403001.
Acting Chairman : R. L. Chowgule ; *Mg. Director :* S. G. Nadkarni ; *Jt. Mg. Director :* Dr. P. Deshpande.

GUJARAT

Cement Corpn. of Gujarat Ltd., Mistry Chambers, Khanpur, Ahmedabad 380001.

Gujarat Agro-Foods Ltd., Khet Udyog Bhawan, Navrangpura, Ahmedabad 380014. (A subsidiary of GA-ICL).

Gujarat Agro-Industries Corpn. Ltd. (GA-ICL), Khet Udyog Bhavan, Opp. High Court, Navarangpura, Ahmedabad 380014.
Chairman : H. A. Gohil ; *Mg. Director :* M. P. Parekh.

Gujarat Agro-Marine Products Ltd., Khet Udyog Bhawan, Navrangpura, Ahmedabad 380014.

Gujarat Agro-Oil Enterprises Ltd., Opp. High Court, Navrangpura, Ahmedabad 380014.

Gujarat Alkalies And Chemicals Ltd., Yashkamal, Sayaji Gunj, Vadodara 390005.

Located at P.O. Petrochemicals, Vadodara Dist., the plant has an annual capacity of 37,425 tonnes Caustic Soda, 33,000 tonnes of Liquid Chlorine, 15,000 tonnes of Hydrochloric Acid.

Chairman : J. J. Mehta ; *Mg. Director :* H. R. Patankar.

Gujarat Carbon Ltd., Harikripa, Alkapuri, Vadodara 390005.
Director & Chief Executive : V. M. Kamat.

Gujarat Communications & Electronics Ltd., Express Bldg., R. C. Dutt Rd., Vadodara 390005.

To promote and develop the electronics industry in the State. The products of the Company will include communication equipments, digital systems, components and professional grade equipments. It will also handle engineering of complete electronic systems and offer turnkey projects.

Chairman & Mg. Director : Brig. Pessie Madan.

Gujarat Dairy Devpt. Corpn. Ltd., Sector 16, Gandhinagar 382016.
Chairman : Prafull H. Bhatt ; *Mg. Director :* P. S. Medora.

Gujarat Export Corpn. Ltd., Gujarat Chambers Bldg.' Near Natraj Theatre, Ahmedabad 380009.
Chairman : M. H. Mehta ; *Mg. Director :* B. H. Raval.

Gujarat Industrial Devpt. Corpn., Fadia Chambers, Ashram Rd., Ahmedabad 380009.
Chairman : Ramniklal Ambani ; *Chief Executive Officer :* L. N. S. Mukundan, I.A.S.

Gujarat Industrial Investment Corpn. Ltd., Natraj Chambers, Ashram Rd., Ahmedabad 380009.
Chairman : R. C. Mehta ; *Mg. Director :* S. C. Shelat, I.A.S.

Gujarat Mineral Devpt. Corpn. Ltd., Khanij Bhavan, Ashram Rd., Ahmedabad 380009.

Functions : To undertake mining and development of minerals in Gujarat. The Corporation has already set up five projects at Vadodara, Surendranagar, Jamnagar, Kutch and Banaskantha districts.

Chairman : Vithalbhai P. Amin ; *Mg. Director :* C. K. Shah.

Gujarat Narmada Valley Fertilizers Co. Ltd., P.O. Fertilizernagar 391750, Vadodara Dist.

Gujarat Nylons Ltd., Mistry Chambers, Khanpur, Ahmedabad 380001.
Director : R. C. Mehta.

Gujarat Sheep & Wool Devpt. Corpn. Ltd., Anand Bldg., Mirzapur Rd., Ahmedabad 380001.
Chairman : C. J. Shukla ; *Mg. Director :* Dr. N. C. Buch.

Gujarat Small Industries Corpn. Ltd., Bhagwati Chambers, Opp. Gujarat Vidyapith, Ashram Rd., Ahmedabad 380013.
Chairman : Prafull Anubhai.

Gujarat State Construction Corpn. Ltd., G. 1/163, Sector-30, Gandhinagar.
Mg. Director : R. G. Patel.

Gujarat State Financial Corpn., [illegible] Bldg., Ashram Rd., P.B. 4030, Ahmedabad [illegible]
Chairman : B. R. Patel, I.C.S. (Retd.) ; *Mg. Director :* C. C. Doctor, I.A.S.

Gujarat State Handicraft & Handloom Devpt. Corpn. Ltd., Opp. Sanyas Ashram, Ashram Rd., Ahmedabad 380009.
Chairman : Mrs. Mrinalini Sarabhai; *Mg. Director :* B. B. Bhasin.

Gujarat State Machine Tool Corpn. Ltd., Chitra Ind. Estate, Bhavnagar 364004.

Gujarat State Road Transport Corpn., Vahan Vyavahar Bhavan, Ahmedabad 380022.
Chairman : Vinodchandra C. Shah.

Gujarat State Rural Devpt. Corpn. Ltd., Capital Project Bldg. Annexe, Sector 16, Gandhinagar 382016.
Chairman : Arvind N. Mafatlal ; *Mg. Director :* K. G. Ramanathan, I.A.S.

Gujarat State Seeds Corpn. Ltd., Sector 16, Gandhinagar 382016.
Chairman : A. D. Patel ; *Mg. Director:* Dr. S. N. Joshi.

Gujarat State Textile Corpn. Ltd., Preema Chambers, Near Mithakhali Circle, Sardar Patel Nagar Rd., Ellis Bridge, Ahmedabad 380006.
Chairman : R. C. Mehta ; *Mg. Director :* Anil C. Shah.

Gujarat State Warehousing Corpn., Anand, Shanti Sadan Est., opp. Dinbai Tower, Mirzapur, Ahmedabad 380001.
Mg. Director : P. R. Madhani; *Gen. Manager :* T. P. Rathod.

Gujarat Tyres Ltd., C/o G.I.I.C. Ltd., Mistry Chambers, Khanpur, Ahmedabad 380001.

Gujarat Water Resources Devpt. Corpn. Ltd., Danapith, Ahmedabad 380001.

Polymers Corpn. of Gujarat Ltd., 'Giriraj', Opp. G. E. Board, Race Course, Vadodara 390007.
Functions : To manufacture (1) Methyl Methacrylate Monomer (MMA), (2) Polymethyl Methacrylate (PMMA) Sheets and (3) Polymethyl Methacrylate (PMMA) Pellets in technical collaboration with Mitsubishi Rayon Co. of Japan.
Chairman & Mg. Director : J. J. Mehta.

Steel Corpn. of Gujarat Ltd., Mistry Chambers, Khanpur, Ahmedabad 380001.

HARYANA

Haryana Agro-Industries Corpn. Ltd., S.C.O.-825-26, Sector 22-A, Chandigarh 160022.
Chairman : K. R. Singh ; *Mg. Director :* Tarsem Lal, I.A.S.

Haryana Breweries Ltd., *Regd. Office :* 49 kms. Stone, G. T. Rd., Murthal 131027, Sonepat Dist.

This project, set up with Danish co-operation, manufactures Rosy Pelican, Birdie Pilsner *Bul Bul* and Black Partrige brands of Beer.
Mg. Director : R. L. Sudhir, I.A.S.

Haryana Dairy Devpt. Corpn. Ltd., S.C.O., Nos. 127-128, Sector, 17/c, Chandigarh 160017.
Chairman : L. D. Kataria, I.A.S. ; *Mg. Director :* B. L. Mittal, I.A.S.

Haryana Financial Corpn., 17, 18, 19, Sector 17A, Chandigarh 160017.
Chairman : V. K. Sibal, I.A.S. ; *Mg. Director :* T. K. Banerji, I.A.S.

Haryana Land Reclamation & Devpt. Corpn. Ltd., S.C.O. 32, 33, 34, Sector-17C, Chandigarh 160017.
Mg. Director : Gian Chand, I.A.S.

Haryana Minerals Ltd., S.C.O. No. 4-5, Sector 17-A, Chandigarh 160017.

Haryana Matches Ltd., E-32, Ind. Area, Yamuna Nagar, Ambala Dist.

Haryana Polysteels Ltd., P.O. Satrod 125044, Hissar Dist.
Chairman : V. K. Sibal, I.A.S.; *Mg. Director :* B. Kejriwal.

Haryana Seeds Devpt. Corpn. Pvt. Ltd., S.C.O. 32–34, Sector 17-C, Chandigarh 160017.
Chairman : L. D. Kataria, I.A.S. ; *Mg. Director :* R. S. Verma, I.A.S.

Haryana State Industrial Devpt. Corpn. Ltd., P.B. 22, S.C.O. 40 & 41, Sector 17A, Chandigarh 160017.
Chairman : V. K. Sibal, I.A.S. ; *Mg. Director :* K. K. Sharma, I.A.S.

Haryana State Minor Irrigation (Tube Wells) Ltd., S.C.O. No. 66-67, Bank Square, Sector 17-B, Chandigarh.
Mg. Director : D. V. Gulati.

Haryana State Small Industries & Export Corpn. Ltd., Flat No. 104-105, Sector 17-D, Chandigarh 160017.
Functions : To export quality goods at competitive prices such as handlooms, handicrafts, automobile parts, bicycles, machine tools, industrial fasteners, laboratory instruments, leather goods, diesel engines etc. etc.
Mg. Director : Sidharth Mehta.

Haryana Tanneries Ltd., S.C.O. 2A, Sector 7-C, Chandigarh 160017. (*Factory :* Hansi Rd., Jind).
Mg. Director : Pradeep Kumar, I.A.S. ; *Gen. Manager :* P. Sen.

Haryana Tourism Corpn. Ltd., Nos. 53-55, Rattan Bldg., Sector 17D, Chandigarh.
Chairman : B. S. Ojha ; *Mg. Director :* Ashok Pahwa.

HIMACHAL PRADESH

Himachal Pradesh Agro-Industries Corpn. Ltd., Summer Seat, Simla 171001.
Functions : To establish, develop and promote schemes relating to horticultural produce and agro-based industries in the State. To develop marketing infrastructure, the Corporation has formed a subsidiary company H.P. Horticultural Produce Marketing & Processing Corpn. P. Ltd.
Chairman : L. H. Tochhawng, I.A.S. ; *Mg. Director :* Ajay Prasad, I.A.S.

Himachal Pradesh Horticultural Produce Mrktg. & Processing Corpn. Ltd., "Nigam Vihar", Simla 171002.
Chairman : L. H. Tochhawng, I.A.S. ; *Mg. Director :* Harbans Singh.

Himachal Pradesh Mineral & Industrial Devpt. Corpn. Ltd., "Himrus", Near Himland Hotel, Simla 171001.
Chairman : U. N. Sharma ; *Mg. Director :* S. K. Chauhan.

Himachal Pradesh State Forest Corpn. Ltd., Willow Bank, The Mall, Simla 171001.
Mg. Director : E. S. Das.

Himachal Pradesh State Handicraft and Handloom Corpn. Ltd., Bhagwati Niwas, Sanjauli, Simla 171006.

Himachal Pradesh State Small Industries & Export Corpn. Ltd., Kishore Bhavan, The Mall, Simla 171001.
Chairman : Sagar Chand Nayar ; *Mg. Director :* Miss Manjula Mahajan, I.A.S.

Himachal Pradesh Tourism Devpt. Corpn. Ltd., Ritz Annexe, Simla 171001.

Himachal Wood Processors Ltd., Kishore Bhavan, The Mall, Simla 171001.

Himachal Worsted Mills Ltd., "Himrus", Cart Rd., Simla 171001.

Chairman : L. H. Tochhawng, I.A.S. ; *Mg. Director :* S. K. Alok, I.A.S.

Himalaya Fertilizers Ltd., Nigam Vihar, Cart Rd., Simla 171002.

Chairman : L. H. Tochhawng, I.A.S. ; *Gen. Manager :* A. R. Chauhan.

Nahan Foundry Ltd., Nahan, 173001, Sirmur Dist.

Production consists of improved type of sugar-cane crushers, bullock as well as power driven, wheat threshers, mono-block pumps, electric motors from 3 h.p. to 15 h.p. and C. I. castings to buyers specifications.

Chairman : D. R. Chauhan ; *Gen. Manager :* P. K. Mandal.

Rosin & Turpentine Factory, Nahan 173001, Sirmur Dist.

From crude resin, the factory manufactures turpentine oil grade II (ISI) and rosin high grades of international repute. The gum of pine trees is obtained from forests of Himachal Pradesh. They also manufacture high quality varnish and phenyl.

Gen. Manager : M. S. Dod, I.F.S.

JAMMU & KASHMIR

Government Silk Weaving Factory, Raj Bagh, Srinagar 190001.

Biggest silk weaving factory in India producing quality silk fabrics out of 100 per cent pure univoltine Kashmir silk.

Chairman : G. N. Kochak ; *Mg. Director :* M. M. Maqbool, I.A.S.

Government Woollen Mills, Srinagar 190001.

The average annual production on the basis of one shift working is — cloth 124,000 metres and yarn 60,000 kg.

Chairman : G. N. Kochak ; *Mg. Director :* M. M. Maqbool, I.A.S.

Jammu & Kashmir Bank Ltd., Residency Rd., Srinagar 190001.

Jammu & Kashmir Cements Ltd., The Band, Srinagar 190001.

Jammu & Kashmir Handicrafts (Sales & Export) Corpn. Ltd., Emporium Bldg., Residency Rd., Srinagar 190001.

Chairman : G. N. Kochak ; *Mg. Director :* G. N. Naik, I.A.S.

Jammu & Kashmir Ind. Ltd., Stone Bldg., Old Secretariat, Srinagar 190001.

The Company runs woollen mills, silk factories, leather tanneries, bricks and tiles factory, pharmaceutical works, etc. in the State. The following projects are expected to be taken up shortly :—Kraft paper project, fruit processing and glass projects and wool combing project.

Chairman : M. M. Afzal Beg ; *Mg. Director :* A. J. Kundan.

J. & K. Minerals Ltd., The Bund, Srinagar 190001.

This Organisation is extracting coal from Kalakot (Jammu), Gypsum from Assar (Jammu) and Buniyar (Kashmir), Borax and Sulphur from Pugga (Ladakh) and Sapphire from Paddar (Jammu) and is also running several mineral based factories like cement in Kashmir and Precast Concrete Factories, one in Kashmir and another in Jammu regions of the State.

Mg. Director : Dr. F. Ahmed.

Jammu & Kashmir Projects Construction Corpn. Ltd., Jallu Bldg., New Secretariat Rd., Srinagar 190001.

Chairman : Sonam Narboo ; *Mg. Director :* H. L. Maini.

Jammu & Kashmir State Agro Ind. Devpt. Corpn. Ltd., Gogjibagh, Srinagar 190008.

Chairman : Aga Muzzafar, I.A.S. ; *Mg. Director :* Wajahat Habibullah.

Jammu & Kashmir State Financial Corpn., Mohi-ud-Din Trust Bldg., Shirwani Rd., P.B. No. 27, Srinagar 190001 ; Auqaf Bldg., Veer Marg, P.B. No. 14, Jammu 180001.

Chairman : D. D. Thakur ; *Mg. Director :* K. M. Kishinchandani.

Jammu & Kashmir State Industrial Devpt. Corpn. Ltd., Haft Chinar, Srinagar 190001.

Chairman : G. N. Kochak ; *Mg. Director :* N. A. Kamili, I.A.S.

Jammu & Kashmir Tourism Devpt. Corpn. Ltd., Tourist Reception Centre, Srinagar 190001.

Chairman : Sheikh Mohammed Abdullah ; *Mg. Director :* Tariq Abdullah.

KARNATAKA

Canara Fertilisers & Chemicals Ltd., Hariniwas, 36, Cunningham Rd., Bangalore 560001.

Chitradurga Copper Co. Ltd., 16/1, Ali Asker Rd., Bangalore 560052.

The company's copper mine is situated near Ingaldhal village, 8 kms. south of Chitradurga town and is known as Ingaldhal Copper Mine.

Chairman & Mg. Director : B. P. Radhakrishna.

Government Sandalwood Oil Factory, Mysore 570008.

Factories at (1) Mysore, (2) Shimoga.

Director : V. Jayappa ; *Gen. Managers :* B. L. Gopalakrishna (Mysore) ; B. M. Nataraj (Shimoga).

Government Silk Weaving Factory, Mananthody Rd., Mysore 570008.

The factory is engaged in the manufacture of high grade 100 per cent pure silk fabrics manufactured out of re-reeled filature silk.

Director : S. S. Meenakshisundaram, I.A.S. ; *Gen. Manager :* A. R. Khan.

Government Soap Factory, P. B. 5531, Bangalore 560055.

Director : N. A. Muthanna, I.A.S. ; *Gen. Manager :* V. Jayappa.

Hutti Gold Mines Co., Ltd., P.O. Hutti, 584115 *via* Raichur.

The current production is at the rate of 185,000 tonnes of ore treated per annum with a recovery of 1,100 kgs. of gold.

Karnataka Agro-Industries Corpn. Ltd., Hebbal, Bangalore 560024.

Functions : Supply of all agricultural machineries on cash basis ; distribution of agricultural inputs ; starting of agro-based industries.

Chairman : H. Hombe Gowda ; *Mg. Director :* C. M. Revanna.

Subsidiaries : Karnataka Agro-Corn Products Ltd. ; *Ex. Director :* N. R. [illegible] ; Karnataka [illegible] Corpn. Ltd. ; *Chairman :* K. S. N. Murthy ; *Mg. Director :* P. U. Belliappa ; Karnataka Compost Devpt. Corpn. Ltd. ; *Ex. Director :* M. Venkataramaiah ; The Mysore Tobacco Co. Ltd. ; *Chairman :* H. Hombe Gowda ; *Mg. Director :* B. P. Balakrishna.

Karnataka Dairy Devpt. Corpn. Ltd., 'Poornima', 22, J. C. Rd., I Cross, Bangalore 560027.

Karnataka Film Ind. Devpt. Corpn. Ltd., 27, Sree Sahi Sudha, Palace Lower Orchard, Bangalore 560003.
Chairman : G. Aswathanarayan, I.A.S.; *Mg. Director :* A. P. Durai, I.P.S.

Karnataka Fisheries Devpt. Corpn. Ltd., Hoige Bazar, Mangalore 575001.
Functions : The Corporation at present operates 14 ice-cum-cold storages cum freezing plants, 1 refrigerated van, 4 insulated vans, 2 deep sea trawlers, and has also undertaken to export 80 tonnes of frozen sea-foods and marketing of 250 tonnes of fresh and frozen fish in the inland markets under ' Cold Chain ' scheme.
Chairman : K. R. Ramachandran; *Mg. Director :* K. Venkatesh.

Karnataka Food & Civil Supplies Corpn. Ltd., E-Block, Combined Administrative Bldg. Complex, Kempegowda Rd., Bangalore 560009.

Karnataka Forest Plantation Corpn. Ltd., 6, Kumar Park East, Bangalore 560001.
Chairman : K. F. Patil; *Mg. Director :* S. R. Bhagwat, I.F.S.

Karnataka Handloom Devpt. Corpn. Ltd., Syndicate Bank Bldg., Gandhinagar, Bangalore 560009.
Mg. Director : Falguni Rajkumar.

Karnataka Implements and Machineries Co. Ltd., Mysore Rd., Bangalore 560026.
It manufactures 1. Heavy duty trailers from 20 tonnes to 200 tonnes capacity; 2. Chemical plants and equipments; 3. Insulator pin; 4. Road rollers and construction machinery; 5. Farm machineries, tools and implements.
Chairman & Mg. Director : C. B. Cariapa.

Karnataka Industrial Areas Devpt. Board, Rashtrothanaparishat Bldg., No. 14/3, Nrupathunga Rd., Bangalore 560002.
Chairman : B. S. Hanuman.

Karnataka Land Army Corpn. Ltd., 32, Sankey Rd., Bangalore 560052.
The land army is a public sector organisation sponsored by the Govt. of Karnataka to eradicate poverty, illiteracy and unemployment. Its strategy is to take up works under minor irrigation, rural communication, soil conservation, janata houses, schools and hospitals. It promotes village industries and trains rural artisans.
Mg. Director : Brig. V. P. Naib.

Karnataka Scheduled Castes & Scheduled Tribes Devpt. Corpn. Ltd., 5, Palace Rd., Bangalore 560001.
Chairman : K. R. Ramachandran, I.A.S.; *Mg. Director :* K. M. Koti.

Karnataka Small Industries Devpt. Corpn. Ltd., Administrative Office Bldg., Ind. Estate, Rajaji Nagar, Bangalore 560044.
Chairman : A. S. Ganeshmurthy; *Mg. Director :* S. M. Patnaik, I.A.S.

Karnataka State Agro-Corn Products Ltd., Bellary Rd., Hebbal, Bangalore 560024. (Branches at Mysore & Belgaum).
The Company has established a maize milling plant for converting commercial hybrid maize into Soji, Maida, Grits, Flour, Germs, Semolina, Bran, etc., and also a plant to produce cattle and poultry feeds.
Chairman : K. S. N. Murthy; *Exec. Director :* N. R. Goudar.

Karnataka State Agro-Seeds Corpn. Ltd., 10, Ali Asker Rd., Bangalore 560052.

Karnataka State Construction Corpn. Ltd., 20/1, Railway Parallel Rd., Kumar Park West, Edward Rd., Bangalore 560020.
Chairman : S. Bangarappa; *Mg. Director :* G. K. Varadappa.

Karnataka State Electronics Devpt. Corpn. Ltd., 'Emlyn Haven', 30, Race Course Rd., Bangalore 560001.
Chairman & Mg. Director : R. K. Baliga.

Karnataka State Financial Corpn., 25, M. Gandhi Rd., Bangalore 560001.
Chairman : M. K. Ramachandra; *Mg. Director :* T. P. Issar, I.A.S.

Karnatak State Forest Ind. Corpn. Ltd., 59, Pottipati House, 8th Cross, Malleswaram, Bangalore 560003.
Functions : To establish industries based on forest produce.
Chairman : A. Muniswamy Gowda; *Mg. Director :* N. S. Adkoli.

Karnataka State Handicrafts Devpt. Corpn. Ltd., 26/45, M. Gandhi Rd., Bangalore 560001.
Functions : The Corporation has been running handicrafts emporia under the name " KAVERI " at Bangalore, Mysore, Mangalore, Belgaum, Hubli and Gulbarga in Karnataka State and in Delhi.

The Corporation has also started production centres for high quality sandalwood carving, bronze castings, wood carving, lacquerware and potteryware. Financial assistance and design assistance are provided to artisans. The Corporation has also undertaken export of handicrafts.
Mg. Director : P. R. Hegde.

Karnataka State Industrial Investment & Devpt. Corpn. Ltd., "Hari Nivas", 36, Cunningham Rd., Bangalore 560052.
Chairman & Mg. Director : S. B. Muddappa, I.A.S.

Karnatak State Tourism Devpt. Corpn. Ltd., 10/4, Kasturba Rd., Bangalore 560001.
Chairman : T. N. Narasimha Murthy; *Mg. Director :* B. N. Betkerur, I.A.S.

Karnataka State Veneers Ltd., P.O. Talaguppa 577430, Shimoga Dist.
Chairman : A. Muniswamy Gowda; *Mg. Director :* B. M. Sapat.

Karnataka Vidyuth Karkhane Ltd., P. B. 2610, Mysore Rd., Bangalore 560026.
Main products : Transformers in various sizes, survey instruments and bakelite mouldings.
Chairman : C. B. Cariapa; *Mg. Director :* T. R. Krishna Gowda.

Mahaboob Shahi Kulburga Mills Co., Ltd., Gulbarga 585101.
A unit of National Textile Corpn. (Andhra Pradesh, Karnataka, Kerala and Mahe) Ltd., the mill runs 35,000 spindles and 606 looms with processing and printing sections.
Gen. Manager : C. N. A. Rao.

Mysore Chrome Tanning Co., Ltd., G.E.F. Post, Mysore Rd., Bangalore 560026.
The company manufactures all kinds of chrome upper leathers, sole leathers, besides manufacturing leather goods.
Chairman & Mg. Director : V. Krishnan, I.A.S.

Marketing Consultant & Agencies Ltd., 36, Cunningham Rd., Bangalore 560001.

Mysore Cosmetics Ltd., Govt. Soap Factory Bldgs., Bangalore 560055.

Mysore Power Corpn. Ltd., Bharatiya Vidya Bhavan Bldg., Race Course Rd., Bangalore 560001.

The Corporation at present owns Sharavathi and Bhadra Hydro Electric Projects and is engaged in the construction of (1) Kalinadi Hydro Electric Project in N. Kanara District; (2) Varahi Hydro-Electric Project in Shimoga District; (3) Chakra Diversion Scheme in Shimoga District; (4) Gangavali Hydro-Electric Project in N. Kanara District; (5) Linganamakki Dam Power House in Shimoga District; (6) A Thermal Scheme in Raichur has also been taken up.

Chairman : D. Devraj Urs; *Mg. Director :* S. P. Bhat.

The Mysore Lac & Paint Works Ltd., P.B. 82, Mysore 570001.

The factory manufactures paints, varnishes, duplicating & printing inks, sealing wax and other allied products.

Chairman & Mg. Director : D. T. S. Rao.

Mysore Match Co. Ltd., B. H. Rd., Shimoga 577401.

Mysore Minerals Ltd., 39, M. Gandhi Rd., Bangalore 560001.

This company deals with mining and marketing of the following minerals: Iron ore, manganese ore, kaolin, kyanite, chromite, steatite, soapstone, limestone, bauxite, feldspar and dolomite.

The total sales by the company during the year 1977-78 amounted to Rs. 47·9 million.

Chairman & Mg. Director : Dr. T. Thimmaiah.

Mysore Sales International Ltd., Hariniwas, 36, Cunningham Rd., Bangalore 560001.

Mysore Sugar Co. Ltd., Sri J. Wadiyar Rd., Bangalore 560002.

Mysore Urban Devpt. Corpn. Ltd., Office of Excise Commissioner, New Public Offices, Bangalore 560001.

NGEF Ltd., Byappanahalli, Bangalore 560038.

Main products : Transformers, motors, switchgears, silicon power diodes, system engineering etc.

Chairman & Mg. Director : V. Venugopal Naidu, I.A.S.

Technical Consultancy Services Organisation of Karnataka, Dte. of Inds. & Commerce, 14/3A, Rashtrothana Parishat Bldg., Nrupathunga Rd., Bangalore 560002.

Chief Adviser : M. R. S. N. Rao.

Tungabhadra Steel Products Ltd., P. O. Tungabhadra Dam 583225, Bellary Dist.

(See under Govt. of India Undertakings).

Visvesvaraya Iron & Steel Ltd., Bhadravati 577301, Shimoga Dist.

It is an integrated steel plant producing alloy and special steels, mild steel, tor steel, ferro-silicon, steel castings, grey iron castings, refractory bricks, cement etc.

Chairman : N. Narasimha Rao, I.A.S.; *Mg. Director and Vice-Chairman :* Cecil Noronha, I.A.S.

KERALA

Chalakudy Refractories Ltd., Railway Station Rd., Chalakudy 680307.

Estd. : 1969. The factory was inaugurated on 14th August 1971 for the manufacture of refractories. Production capacity is now being raised to 1,000 tonnes per month from 300 tonnes originally proposed. Main products are B.P. sets, sillimanite bricks, insulation bricks, high heat duty refractories, zircon nozzles, graphite stopper heads, etc.

Chairman : P. S. Namboodiri; *Mg. Director :* T. A. Sidharthan.

Fibre Foam Ltd., Valaparam, Cannanore 670001.

Forest Industries Travancore Ltd., Post Box No. 18, Alwaye 683101.

Handicrafts Devpt. Corpn. of Kerala Ltd., Putenchanthai, Trivandrum 695001.

Chairman : V. A. Rahiman; *Mg. Director :* N. Kochugovindan Achari.

Kerala Agro-Industries Corpn. Ltd. Regd. Office: Kissan Jyothi, Fort, Trivandrum 695023.

Chairman : C. D. Potti; *Mg. Director :* P. R. Chandran.

Kerala Agro-Machinery Corpn. Ltd., *Regd. Office :* 38/697, Kateson Bldg., M. G. Rd., Ernakulam 682011. *Factory :* P.O. Athani, Angamali South, Ernakulam Dist. *Function :* Manufacturers of Kubota power tillers with a licenced capacity of 12,000 numbers per year.

Mg. Director : P. R. Chandran.

Kerala Ceramics Ltd., P.O. Kundara 691501.

The Company consists of two divisions. (1) The Porcelain Division producing porcelain crockery, and low tension electrical insulators. (2) The Kaolin Division, consisting of china clay mines and modern plant producing refined china clay of various grades including paper coating clay.

Mg. Director : S. Ganapatty.

Kerala Electrical & Allied Engg. Co., Ltd., P.O. Mamala, Cochin 682305.

Products manufactured : Transformers, switchgears, transmission line towers, electric motors, centrifugal pumps, bakelite mouldings, G. I castings, fuse units, etc., etc.

Chairman : M. S. K. Ramaswamy; *Mg. Director :* Commodore A. N. Pillai, AVSM, I.N. (Retd.).

Kerala Financial Corpn., K.F.C. Bldgs., Vellayambalam, Trivandrum 695001.

Chairman : B. V. Abdulla Koya; *Mg. Director :* T. P. Balakrishnan Unni.

Kerala Fisheries Corpn. Ltd., XVI 848B, Shanmugham Rd., Ernakulam, Cochin 682011.

Functions : To assist fishermen producing better quality products for foreign markets; to obtain foreign assistance and collaboration wherever necessary. At present it has 5 ice and freezing plants, 2 fish meal plants, 1 nylon net factory, 1 canning factory, 1 fleet section with four 72' Mexican trawlers and 6 indigenous trawlers.

Mg. Director : Dr. K. P. P. Nambiar.

Kerala Forest Devpt. Corpn. Ltd., Chemparathimoottil Bldg., Kottayam 686006.

Chairman : G. Bhaskaran Nair, I.A.S.; *Mg. Director :* K. J. Joseph, I.F.S.

Kerala Garments Ltd., P.M. 32 249, Thillery Rd., Cannanore 670001.

Directors : T. Tampi Thomas; M. N. U. Kurup.

Kerala Handloom Finance & Trading Corpn. Ltd., P.M. 32 249, Thillery Rd., Cannanore 670001.

Chairman : T. Tampi Thomas; *Mg. Director :* M. N. U. Kurup.

Kerala Industrial & Technical Consultancy Organisation Ltd. (KITCO), Shema Bldg., M. Gandhi Rd., P. Box No. 1820, Cochin 682016.

KITCO a subsidiary of the Indl. Devpt. Bank of India, co-sponsored by national level and State level financial institutions and the State Government for promotion of industrial development.

Chairman : Dr. S. A. Dave ; *Mg. Director :* G. I. Vurgese.

Kerala Land Devpt. Corpn. Ltd., 44, Shanti Nagar, Trivandrum 695001.

Functions : To promote, undertake, finance and execute land development schemes for agriculture and allied activities. The Kuttanand Development Project has been taken up to augment output of rice and coconut in the region. Similarly a project for development of 12,140 hectares of Kole Lands in Trichur District has also been taken up to augment paddy cultivation.

Chairman : P. G. Muralidharan ; *Mg. Director :* P. Aravindakshan Achan.

Kerala Livestock Devpt. & Milk Marketing Board Ltd., 9/1148, "Mani Bhavan", Sasthamangalam, Trivandrum 695010.

Kerala Minerals & Metals Ltd., Mc. No. C-28/229, Ward 28, Manayikulangara, Quilon 691012.

Kerala Premo Pipe Factory Ltd., P.O. Puthenthura, Neendakara, Quilon Dist. *Registered Office :* Near High School Junction, Quilon 691009.

In this factory prestressed high and low pressure concrete pipes and R.C.C. pipes are manufactured for water supply, drainage and irrigation.

Chairman : N. Gopalkrishnan Nair ; *Mg. Director :* K. K. Kamath.

Kerala Shipping Corpn. Ltd., Shipping House, Harbour Rd., Willingdon Island, Cochin 682003.

Promoted by the Govt. of Kerala in the joint sector to own ships and to conduct shipping business.

Mg. Director : G. Gopalakrishna Pillai, I.A.S.

Kerala Soaps & Oils Ltd., West Hill, Calicut 673005.

The Company consists of 3 units viz. Soap Division, Oil Division and Hydrogenation Division.

The Company manufacturers soaps, Vitamin A & D, Shark liver oil products and glycerene.

Mg. Director : M. Satyanarayana.

Kerala State Bamboo Corpn. Ltd., Angamally 683572.

Chairman : Smt. Sarla Gopalan ; *Mg. Director :* K. Prabhakaran.

Kerala State Cashew Devpt. Corpn. Ltd., P. B. No. 13, Quilon 691001.

Chairman : N. Raman Pillai ; *Mg. Director :* G. K. Panikkar, I.A.S.

Kerala State Coconut Devpt. Corpn., Kairali, Jagathy, Trivandrum, 695014.

Chairman : N. Chandrabhanu ; *Mg. Director :* M. Raghunathan.

Kerala State Coir Corpn. Ltd., P. B. No. 191, Alleppey 688001.

Chairman : C. Krishnakutty Nair ; *Mg. Director :* K. Prabhakaran.

Kerala State Devpt. Corpn. for Scheduled Castes & Scheduled Tribes Ltd., XXV/300, M. Gandhi Rd., Trichur 680001.

Chairman : D. Kalassery ; *Mg. Director :* M. K. Ravindranathan.

Kerala State Drugs & Pharmaceuticals Ltd., Kalavoor, Alleppey 688522.

Chairman : Dr. K. N. Pai ; *Mg. Director :* M. Narayanan.

Kerala State Electronics Devpt. Corpn. Ltd., Marikar Bldg., M. Gandhi Rd., Trivandrum 695001.

Functions : To promote establishment of electronic industry in the State. The Corporation has promoted several companies such as Keltron Component Complex Ltd., Keltron Crystals Ltd., Keltron Resistors Ltd., Dielectro Magnetics Ltd., etc. etc., for the manufacture of T.V. receivers, electronic calculators, voltage stabilisers, etc.

Chairman & Mg. Director : K. P. P. Nambiar.

Kerala State Film Devpt. Corpn. Ltd., T. C. 15/21-1, Cotton Hill, Trivandrum 695014.

Chairman : P. R. S. Pillay ; *Mg. Director :* G. Vivekanandan.

Kerala State Financial Enterprises Ltd., 'Bhadratha', P.B. No. 172, Museum Rd., Trichur 680004.

The only Public Sector company in India that conducts chit funds to cater to the public and also conducts hire purchase financing under which durable consumer articles such as motor vehicles, refrigerators, sewing machines, bicycles, fans, radios, pump sets, etc. are made available to the public at reasonable rates of finance charge. It has 24 branches in important towns of the State.

Mg. Director : K. Bharathan.

Kerala State Industrial Devpt. Corpn. Ltd., Trivandrum 695003.

Chairman : K. T. Chandy ; *Mg. Director :* Vacant.

Kerala State Ind. Enterprises Ltd., Post Box 806, Kawdiar, Trivandrum 695003.

Director-Secretary : N. K. R. Paniker.

Kerala State Small Industries Devpt. & Employment Corpn. Ltd., Kerala State Housing Board Bldgs., Santhinagar, Trivandrum 695003.

Exec. Chairman : S. Krishnakumar, I.A.S. ; *Exec. Director :* K. R. Pillai.

Kerala State Textile Corpn. Ltd., 'Pankaj', Vellayambalam, Trivandrum 695010.

Functions : Assisting or managing textile manufacturing & processing units in Kerala State.

Chairman : G. V. S. Desikan.

Kerala Tourism Devpt. Corpn. Ltd., Elenjikal Bunglow, T.C. No. 26/342, P.O. Box 46, Trivandrum 695001.

Chairman : P. P. Wilson ; *Mg. Director :* S. Syed Khan.

Kerala Urban Devpt. Finance Corpn. Ltd., Tej Bhawan, New Rd., Calicut 673005.

Chairman : N. Gopalakrishnan Nair ; *Mg. Director :* K. P. M. Rowther.

Meat Products of India Ltd., XXXVIII/697-9, Kateson Bldg., M. Gandhi Rd., Cochin 682011.

Chairman : C. Damodaran Potti.

Metropolitan Instruments Ltd., Chavadimukku Junction, N.H. 47, Sreekariam, Trivandrum 695001.

National Traffic Planning & Automation Centre (a consultancy divn. of KELTRON), Sreekariyathu Madom, Sreekanteswaram Rd., Trivandrum 695023.

Functions : Undertakes traffic and transportation planning at the State, national and international levels. The Centre is supplemented by the manufacturing unit of Keltron by way of producing traffic signalling equipment, closed circuit television system etc.

Chairman & Mg. Director : K. P. P. Nambiar ; *Chief Executive :* Dr. N. S. Srinivasan.

Overseas Devpt. & Employment Promotion Consultants Ltd., Y.W.C.A. Bldg., Trivandrum 695001.

Chairman & Mg. Director : T. T. P. Abdullah.

Packaging Paper Corpn. Ltd., Kerala Financial Bldg., Vellayamabalam, Trivandrum 695001.

Pallathra Bricks & Tiles Ltd., P.O. Kochuramapuram, Shertallay 688524.

The object of the Company is to produce and distribute sand lime bricks, a new architectural brick of high strength and finish. The designed capacity of the factory is 44,000 bricks per working day of 16 hours.

Plantation Corpn. of Kerala Ltd., P. B. 12, Kottayam 686004.

Area under *rubber :* 7,160 hectares, Area under yielding : 5,636 hectares ; Area under *oil palm :* 1,150 hectares, Area under yielding : 215 hectares ; Area under *cashew :* 4,163 hectares, Area under yielding : 2,470 hectares. The Corporation manufactures all grades of sheet, crepe and crumb rubber, 60 per cent centrifuged latex, and red palm oil.

Rehabilitation Plantations Ltd., Power House Rd., Punalur 691305.

Scooters (Kerala) Ltd., Vadackal P.O., P.B. No. 290, Alleppey 688003.

Mg. Director : K. Viswanathan.

State Farming Corpn. of Kerala Ltd., Karimbu Bhavan, P.O. Nellipally, Punalur 691305.

Chairman : M. S. K. Ramaswamy ; *Mg. Director :* T. Vijayan Nair.

Steel Industrials Kerala Ltd., No. XI/141, St. Thomas Rd., Trichur 680006.

Functions : To set up steel casting foundry, steel forgings/springs, steel structurals and roller bearings of radiographic quality for use in railways, power plants, power tillers, etc.

Mg. Director : Tampi Thomas.

Traco Cable Co. Ltd., XXXI/890-5, Hospital Rd., Ernakulam, Cochin 682011.

The Company manufactures all kinds of PVC cables and wires upto and including 1100 volts grade, AAC and ACSR conductors, paper insulated lead sheathed polyethylene jacketted underground telephone cables of size upto 100 pairs.

Chairman : K. P. Vishwanathan Nayar ; *Mg. Director :* K. P. Pillay.

Transformer & Electricals Kerala Ltd., Angamalli P.O., Ernakulam Dist.

Travancore-Cochin Chemicals Ltd., P.O. Udyogamandal [illegible].

Only public sector Caustic Soda Unit in the country — Established in 1952. The daily licensed production capacity of the factory is 200 tonnes of rayon grade caustic soda, 10 tonnes of sodium hydrosulphite, 7 tonnes of iron-free sodium sulphide, 360 tonnes of hydrochloric acid and 60 tonnes of liquid chlorine. It is the largest caustic soda unit in the country.

Mg. Director : T. K. Kalyanakrishnan.

Travancore Plywood Industries Ltd., Punalur 691305.

The installed capacity of the factory is 2·28 million sq. metres of plywood panels per annum in two shifts. Annual turnover is Rs. 10 million.

Chairman : S. Peer Mohammed ; *Mg. Director :* R. Neelakantan Nair.

Travancore Titanium Products Ltd., Kochuveli, Trivandrum 695021.

The factory is the only unit in India producing titanium dioxide pigments. It has now a production capacity of 24,000 tonnes per annum.

Mg. Director : B. Rama Murti.

Trivandrum Rubber Works Ltd., Trivandrum 695007.

Mg. Director : P. G. S. Nayar.

Trivandrum Spinning Mills Ltd., Balaramapuram 690501. Equipped with modern superhigh draft machinery for 25,200 spindles and 800 spindles of doubling frames, this mill manufacture quality yarn of counts varying from 40s and 60s in hanks and cones.

Chairman & Mg. Director : G. V. S. Desikan.

United Electrical Industries Ltd., Pallimukku, Quilon 691001.

The company manufactures electricity meters, motor starters, switchgears, magneto generators, carbon film resistors and plastic film capacitors.

Chairman : Dr. V. Venkita Narayanan, I.A.S. ; *General Manager :* T. G. Paul.

MADHYA PRADESH

Madhya Pradesh Audyogik Vikas Nigam Ltd., Panchanan, Malviya Nagar, Bhopal 462003.

Functions : It aims to promote the establishment of industries by providing them with financial, technical and other assistance.

Mg. Director : S. K. Misra, I.A.S.

Madhya Pradesh Financial Corpn., Finance House, Bombay-Agra Rd., Indore 452001.

Chairman : N. V. Krishnan, I.A.S.

Madhya Pradesh Laghu Udyog Nigam Ltd., 23, New Shopping Centre, New Market, T. T. Nagar, Bhopal 462003.

The Nigam has undertaken the following activities :—

(1) Procurement and distribution of scarce and controlled materials.

(2) Sale of handloom and handicraft products, through 15 emporia and participation in exhibitions and export promotion.

(3) Marketing of small industries products.

(4) Construction of industrial estates, rural work sheds and development of industrial areas for establishing factories.

Chairman : Amolakchand Chhajad ; *Mg. Director :* G. K. Seth.

Madhya Pradesh State Agro-Industries Devpt. Corpn. Ltd., New Market, Tatyatope Nagar, Bhopal 462001.

Functions : It helps promote and establish agro-based industries ; distributes and hires farm machinery and equipments and sells agricultural inputs ; and trains and finances educated unemployees to set up agro-service centres and industries. It has developed a mechanical farm at Hoshangabad, a pesticide factory at Bina, oil and cattle-feeds factory at Morena, a fertiliser granulation plant at Itarsi and a cold storage at Chhindwara.

Mg. Director : A. G. Khare.

Madhya Pradesh State Dairy Devpt. Corpn. Ltd., Guru Teg Bahadur Complex, Roshanpura, Bhopal [illegible];

Chairman : M. S. Choudhary ; *Mg. Director :* Dr. V. S. Krishna.

Madhya Pradesh State Forest Devpt. Corpn. Ltd., 'Panchanan', Malviya Nagar, Bhopal 462003.

Chairman : Y. R. Meghawale ; *Mg. Director :* V. K. Seth.

Madhya Pradesh State Industries Corpn. Ltd., 'Panchanan', Malviya Nagar, Bhopal 462003.

Functions : To run the State Sector industries and to participate in Joint Sector.

Chairman & Mg. Director : M. K. Chaturvedi, I.A.S.

Madhya Pradesh State Mining Corpn. Ltd., E-1/2, Arera Colony, Bhopal 462014.

Functions : The Corporation is engaged in mining of rock phosphate, limestone, dolomite, tin, fluorite, bauxite, silica sand, pyrophyllite, diaspore and fire clay.

Mg. Director : V. K. Pathak.

Madhya Pradesh State Textile Corpn. Ltd., 9-A, Civil Lines, Bhopal 462002.

Functions : The Corporation has been set up to take over and manage textile mills under the Industries (Development & Regulation) Act, 1951 and Sick Textile Undertakings (taking over of Management) Act, 1953. At the moment it manages a spinning mill and is entrusted with the work of development of sericulture including mulbery and tasar in the State.

Chairman-cum-Mg. Director : Vinod Dhall.

Madhya Pradesh Textbook Corpn., 7, Malviyanagar, Bhopal 462003.

Madhya Pradesh Vidyut Yantra Ltd., 781, Wright Town, P.B. No. 300, Jabalpur 482002.

Chairman : M. K. Chaturvedi, I.A.S. ; *Mg. Director :* M. B. Tambakad.

MAHARASHTRA

City & Industrial Devpt. Corpn. of Maharashtra Ltd. (Cidco), Nirmal, Nariman Point, Bombay 400021.

Functions : It was established in March 1970 with the object of developing (1) A new city across the harbour of Bombay. The new city, to be called New Bombay, will extend over an area of about 343·70 sq. kms. in the Panvel-Thane-Uran Tehsils of Thane and Kulaba Districts; (2) New Aurangabad, to facilitate urban development of Marathwada ; (3) A residential complex for industrial workers at Tarapur and (4) New townships in Nasik and Nanded notified areas.

Vice-Chairman & Mg. Director : B. S. Dhavle, I.A.S.

Dairy Devpt. Corpn. of Marathwada Ltd., Vikas Bhavan, Dr. R. Prasad Rd., Aurangabad 431001.

Development Corpn. of Konkan Ltd., Warden House, Sir P. Mehta Rd., Bombay 400001.

Functions : To promote industrial growth in the districts of Thane, Kulaba and Ratnagiri.

Chairman : D. J. Madan ; *Mg. Director :* J. G. Rajadhyaksha, I.A.S.

Development Corpn. of Vidarbha Ltd., Mahajan Bldg., Main Rd., Sitabuldi, Nagpur 440012.

Functions : To achieve orderly industrialisation of the 8 districts of Vidarbha. To this end the Corporation is setting up units on its own or as joint sector ventures, and is also preparing viable schemes to help would-be entrepreneurs. Accordingly the Corporation has under implementation projects on seeds, dairy, tussar silk, Palma Rosha oil etc. The Corporation has revised sick unit of Gondwana Paints and Minerals Ltd. at Kamptee.

Chairman : D. J. Madan ; *Mg. Director :* B. B. Sharma.

Forest Development Corpn. of Maharashtra Ltd., 6A, Nawab Layout, Tilak Nagar, Nagpur 440010.

Chairman : Vacant ; *Mg. Director :* I. M. Qureshi, I.A.S.

Gondwana Paints & Minerals Ltd., Buty Bhawan, Jain Rd., Nagpur 440001.

Haffkine Bio-Pharmaceutical Corpn. Ltd., Parel, Bombay 400012.

Functions : Manufactures bacterial and viral vaccines, antitoxins, plasma products, diagnostic reagents and other biologicals and other pharmaceutical formulations, including infusions. For the benefit of the general public, the life saving biologicals are sold day and night at the telephone room of the Corpn.

Mg. Director : D. B. S. Sohal.

Irrigation Devpt. Corpn. of Maharashtra Ltd., New Adm. Bldg., Agricultural College Compound, Shivajinagar, Pune 411005.

Mg. Director : G. B. Kanagalekar.

Leather Ind. Devpt. Corpn. of Maharashtra Ltd., Bombay Life Bldg., 45, Veer Nariman Rd., Bombay 400023.

Chairman : Namdeorao Vatkar ; *Mg. Director :* A. L. Bongirwar, I.A.S.

Leather Ind. Corpn. of Marathwada Ltd., Vikas Bhavan, Dr. R. Prasad Rd., Aurangabad 431001.

Chairman : M. Palodkar ; *Executive Director :* A. W. Bhadkamkar, I.A.S.

MAFCO Ltd., Mistry Bhavan, D. Vachha Rd., Bombay 400020.

Functions : To develop the storage, processing and marketing of perishable agricultural produce (viz. vegetables, meat, dairy products) in order to ensure that the agricultural producer gets a fair price and the consumer obtains a quality product at a reasonable rate.

Chairman : B. V. Nimbkar ; *Mg. Director :* V. Sundaram.

MAFCO Factory, National Park, Borivli, Bombay 400066.

This factory has a capacity to slaughter 100 pigs a day and produces meat, bacon, ham, sausages and canned meat products.

Manager : D. N. Tandale.

MAFCO Factory : Gokhale Nagar, Pune.

This Poultry Dressing Plant has a capacity of dressing 1,200 birds per hour. The factory produces broilers, culls, fruits and vegetables, fish and procures eggs from poultry farms in the vicinity.

Manager : K. B. Patil.

MAFCO Factory : Turbhe.

This Factory has a capacity of producing 1,200 tonnes of frozen material per year, and cold storage of 1,100 tonnes and deep freeze of 900 tonnes. The factory produces fish, fruit and vegetables.

Manager : M. P. Tanksale.

MAFCO Factory : Koregaon.

This cold store with a capacity of 100 tonnes of cold storage, also has a slaughter house. The factory has now a production capacity of 1,200 tonnes per year of bufllao meat, mutton, fruits and vegetables and procures country eggs from small farmers in the vicinity.

Manager : S. K. Garde.

MAFCO Factory : Nanded.

The factory has a capacity of producing 1,800 tonnes per year of buffalo meat, mutton, frogs legs, sweet water fish, fruit and vegetables.

Manager : A. R. Mirikar.

MAFCO Cold Store : Gultekdi, Pune.

This cold store has a capacity of 1,700 tonnes of cold storage and 300 tonnes of deep freeze. It stores potatoes, onion seed, dairy products, frozen fruits and vegetables.

Maharashtra Agro-Industries Devpt. Corpn. Ltd., Rajan House, Near Century Bazar, Bombay 400025.
Chairman : S. G. Pawar ; *Mg. Director :* K. Rajan.

Maharashtra Electronics Corpn. Ltd., Air India Bldg., Nariman Pt., Bombay 400021.
Chairman : Harish Mahindra ; *Mg. Director :* S. Rajgopal.

Maharashtra Film, Stage & Cultural Devpt. Corpn. Ltd., Filmcity, Goregaon, Bombay 400063.
Chairman : S. S. Varde ; *Vice-Chairman :* V. Shantaram ; *Mg. Director :* Smt. Malti Tambe-Vaidya.

Maharashtra Fisheries Development Corpn. Ltd., Bank of India Bldg., Flora Fountain, Bombay 400023.
Mg. Director : K. Nalinakshan, I.A.S.

Maharashtra Industrial Devpt. Corpn., Marol Ind. Area, Mahakali Caves Rd., Mulgaon, Andheri (East), Bombay 400093.
Chairman : S. G. Pawar ; *Ch. Ex. Officer :* Y. S. Bhave, I.A.S.

Maharashtra Land Devpt. Corpn. Ltd., Administrative Bldg. of the Agriculture Dept., Shivajinagar, Pune 411005.
Mg. Director : G. B. Kanagalekar.

Maharashtra Small-Scale Industries Devpt. Corpn. Ltd., Krupanidhi, 9, W. Hirachand Marg, Bombay 400038.
Chairman : Murli S. Deora ; *Mg. Director :* A. L. Bongirwar, I.A.S.

Maharashtra State Co-op. Marketing Fedn. Ltd., Kanmoor House, Narsi Natha St., Bombay 400009.

Maharashtra State Farming Corpn. Ltd., 270, Bhamburda, S. Bapat Marg, Pune 411016.
Functions : Cultivation and management of the surplus lands of the joint stock sugar companies in Maharashtra vesting in the Government under the provisions of the Maharashtra Agricultural Lands (Ceiling on Holdings) Act, 1961 and granted to the Corporation.
Chairman : M. D. Chaudhari ; *Mg. Director :* P. P. Mahana.

Maharashtra State Financial Corpn., New Excelsior Bldg., A. K. Nayak Marg, Bombay 400001.
Functions : The Corporation provides financial assistance to medium and small-scale industrial concerns in Maharashtra State and in the Union Territory of Goa, Daman and Diu. Assistance is also available to qualified technicians and educated unemployed persons.
Chairman : Homi J. H. Talevarkhan ; *Mg. Director :* M. K. Kolhatkar.

Maharashtra State Handlooms Corpn., 50, Central Avenue, Ahmad Manzil, Nagpur 440001.

A subsidiary of the Maharashtra State Textile Corpn., Ltd., it manages the affairs of the handloom industry in the State.
Chairman : N. R. Deoghare ; *Mg. Director :* K. T. Vaidye.

Maharashtra State Handloom Textile Co-op. Marketing Fedn. Ltd., Vashani Chambers, 47, Sir Vithaldas Marg, Bombay 400020.

Maharashtra State Mining Corpn. Ltd., 5, Abhyankar Nagar, Nagpur 440010.
Chairman-cum-Mg. Director : C. N. Chari.

Maharashtra State Oilseeds Commercial & Ind. Corpn. Ltd., 7, Jolly Bhavan No. 2, 7, New Marine Lines, Bombay 400020.

Maharashtra State Powerlooms Corpn. Ltd., Vashani Chambers, 47, New Marine Lines, Bombay 400020.
Functions : To rehabilitate the powerloom industry and to assist the weavers, who are economically weak ; the Corporation undertakes various operations in production, marketing and sale of cloth.
Mg. Director : S. V. Thakar.

Maharashtra State Seeds Corpn. Ltd., Plot No. 8, Shastri Nagar, Akola 444104.
Chairman : J. G. Kanga ; *Mg. Director :* T. Balaraman.

Maharashtra State Textile Corpn. Ltd., 'Lotus House', 33-A, New Marine Lines, Bombay 400020.
Functions : Originally established to take over sick textile mills in the State. Now owning two textile mills and entrusted with management of three textile mills, it is going to establish a new textile mill at Aurangabad.
Chairman & Mg. Director : S. P. Upasani.

Maharashtra State Warehousing Corpn., Plot 'B', Survey No. 583, Marketyard, Gultekadi, Pune 411009.
Functions : The Corporation has established warehouses at 93 centres all over Maharashtra State. Against warehouse receipts issued by the Corporation, the depositors can secure advances from Scheduled Banks. The Corporation also provides agricultural needs.
Mg. Director : A. Dasgupta, I.A.S.

Maharashtra Tourism Devpt. Corpn., Express Towers, Nariman Pt., Bombay 400021.
Chairman : Mrs. Prabha Rao ; *Mg. Director :* Smt. Malti Tambe-Vaidya.

Marathwada Devpt. Corpn. Ltd., Vikas Bhavan, Dr. R. Prasad Rd., Aurangabad 431001.
Functions : To promote, establish and assist industries for the industrial development of Marathwada region. It has floated new companies : Textile Corporation of Marathwada Ltd. (for powerlooms), Dairy Development Corporation of Marathwada Ltd. and Leather Industries Corporation of Marathwada Ltd.
Chairman : M. Palodakar ; *Mg. Director :* A. W. Bhadkamkar, I.A.S.

Pratap Spg., Wvg. & Mfg. Co. Ltd., Pratap Nagar, Post Box No. 36, Amalner, Jalgaon Dist.

State Industrial & Investment Corpn. of Maharashtra Ltd., 'Nirmal', Nariman Point, Bombay 400021.
Mg. Director : S. Padmanabhan, I.A.S. ; *Gen. Manager :* L. D. Thawani.

Textile Corpn. of Marathwada Ltd., Vikas Bhavan, Dr. R. Prasad Rd., Aurangabad 431001.
Functions : A subsidiary company of the Marathwada Development Corpn. Ltd. ; it has set up its pre-weaving unit and process house in Nanded. The processing capacity is 120,000 metres per day. Production started in April, 1972.
Mg. Director : A. M. Cairae, I.A.S.

Vidarbha Quality Seeds Ltd., D.W.P.R. Bungalow, H. No. 854, Ward 25, Subhas Rd., Amravati.

Western Maharashtra Devpt. Corpn. Ltd., Red-ross House, 11, Mahatma Gandhi Rd., Pune 411001.
Mg. Director : Rajendra Singh, I.A.S.

MANIPUR, MEGHALAYA & NAGALAND

Forest Devpt. Corpn. of Meghalaya Ltd., Additional Secretariat Bldg., Shillong 793001.

Manipur Small Industries Corpn. Ltd., Paona Bazar, Imphal 795001.

Mg. Director : H. Babu Singh.

Mawmluh-Cherra Cements Ltd., Mawmluh, Cherrapunjee 793108.

The Company has set up its factory at Cherrapunjee for manufacture of Portland Cement with a capacity of 84,000 tonnes per annum.

Chairman : H. E. Polshna.

Meghalaya Essential Oil & Chemicals Ltd., Nongrim Hills, Shillong 793003.

Chairman : J. M. Jala, I.A.S.

Meghalaya Industrial Devpt. Corpn. Ltd., P. Box No. 9, Shillong 793001.

Chairman : P. R. Kyndiah ; *Mg. Director :* J. M. Jala, I.A.S.

Nagaland Industrial Devpt. Corpn. Ltd., Ind. Estate, P. B. No. 5, Dimapur 797112.

Chairman : H. Zopianga, I.A.S.

ORISSA

Cuttack Iron & Steel Products Ltd., Ind. Estate, Cuttack 753003.

The company manufactures fabricated steel goods. It undertakes all types of fabrication work. Its products can be divided into three categories : (1) Heavy Goods ; (2) Semi-Heavy Goods ; (3) Light Goods.

East Coast Salt & Chemical Ind. Ltd., Sardar Patel Hall Premises, Bhubaneshwar 751001.

Gajpati Steel Industries Ltd., Office of the Dist. Ind. Officer, P.O. Berhampur, Ganjam.

Industrial Devpt. Corpn. of Orissa Ltd., P. B. 78, Bhubaneswar 751001.

Functions : The Corporation has eight running industries (1) Kalinga Iron Works, Barbil ; manufacturers of superior foundry grade pig iron ; (2) Hira Cement Works, Bargarh. Sambalpur 768001 ; (3) The Ferro-chrome Project, Jaipur Rd., Cuttack 753001 ; manufacturers of high carbon ferrochromium and high carbon silicon-chromium ; (4) Hira Cable Works, Hirakud 786016 ; manufacturers of ACSR & AAC Cables, enamelled copper and paper covered wires and strips ; (5) Re-rolling Mill, Hirakud 768016 ; manufacturers of bars, rods, angles, tor-steel and light structurals ; (6) Hirakud Industrial Works, Hirakud 768016 ; manufacturers of Khandsari sugar machinery, pugmill title presses, rice haulers etc.; (7) Tile Factory, Choudwar, Cuttack 753001 ; manufacturers of various kinds of tiles and (8) East Coast Salt & Chemical Industries, Sumandi, Ganjam ; manufacturers of edible and industrial grade salt.

Prospective units : Ingot Casting Plant, Hirakud, 768016. Jute Mill, Dhanmandal, Cuttack 753001 and Sodium Dichromate Plant, Talchar 759100.

Chairman : K. S. Chandrasekharan, I.A.S. ; *Mg. Director :* S. N. Das Mahapatra.

Industrial Promotion & Investment Corpn. of Orissa Ltd., 3A, Satyanagar, Bhubaneswar 751001.

Jagannath Chemical & Pharmaceutical Works Ltd., Ind. Easte, Cuttack 753003.

Mayurbhanj Textiles Ltd., P.O. Baripada 757001.

Modern Electronics Ltd., B-7, Ind. Estate, Cuttack 753010.

Modern Malleable Casting Co. Ltd., Berhampur, Ganjam.

Orissa Agrico Ltd., B-9, Ind. Estate, Cuttack 753010.

Orissa Agro Industries Corpn. Ltd., Killa Maidan, Cuttack 753001.

Mg. Director : S. R. Patnaik.

Orissa Board Mills Ltd., C-9, Ind. Area, Cuttack 753001.

Orissa Boat Builders Ltd., Mandapara, Choudwar, Cuttack 753001.

Orissa Concrete Products Ltd., P.O. Rasulgarh, Puri Dist.

Orissa Construction Corpn. Ltd., Gopabandhu Nagar, Unit No. 8, P.O. New Capital, P-B, 82, Bhubaneswar 751003.

Chairman : B. Ramadorai, I.A.S ; *Director-in-Charge :* K. T. Subudhi.

Orissa Forest Corpn. Ltd., 90/91, Satyanagar, Bhubaneshwar 751007.

Functions : The Corporation undertakes proper exploitation of forest resources of the State and markets raw and finished forest products such as timber, props, colliery materials, sleepers, charcoal, Kendu leaves, Sal seeds, etc.

Mg. Director : P. Mohapatra.

Orissa Foundry Co. Ltd., New Barracks St., Berhampur Town, Ganjam.

Orissa Instruments Ltd., B-8, Ind. Estate, Cuttack 753010.

Chairman & Director : S. B. Mohapatra, I.A.S.

Orissa Lift Irrigation Corpn. Ltd., Bhubaneshwar 751001.

Orissa Mining Corpn. Ltd., Bhubaneswar 751001.

Chairman : Dr. B. Venkataraman.

Orissa Road Transport Co., Ltd., Station Rd., Berhampur, Ganjam.

Orissa Small Scale Ind. Corpn. Ltd., Killa Maidan, Cuttack 753001.

Orissa State Commercial Transport Corpn. Ltd., Old Secretariat Bldgs., Killa Maidan, Cuttack 753001.

Orissa State Financial Corpn., Arunodaya Market Bldg., Link Rd., Cuttack 753009.

Orissa Tiles Ltd., P.O. Barang, Cuttack 753001.

Orissa Tyres Ltd., Garkan, P.O. Sainik School, Bhubaneswar 751005. (A Joint Sector Project of Transport Corpn. of India Ltd. & Industrial Promotion & Investment Corpn. of Orissa Ltd. with technical collaboration of General Tyres International Co., U.S.A.).

To manufacture 500,000 each of tyres and tubes per annum. The project is expected to be completed in 1982.

Premier Bolts & Nuts Co. Ltd., B-10—Ind. Estate, Cuttack 753001.

Rourkela Fabrications Ltd., Ind. Area, Rourkela 769004. The factory manufactures sophisticated mechanical spares for steel plant including import substitution items and general fabrications, light, medium and heavy.

Turn-over for 1977-78 : Rs. 1·90 million.

Spark Battery Manufg. Works Ltd., Ind. Estate, Cuttack 753003.

Chairman : D. C. Gupta, I.A.S. ; *Mg. Director :* N. C. Pradhan.

Tribal Devpt. Co-op. Corpn. of Orissa Ltd., Post Box 148, Bhubaneswar 751001.

Functions : To save the tribals from exploitation by procuring their minor forest and surplus agricultural produce at reasonable prices, to supply their daily needs through fair price shops and to give them interest free loans.

President : B. K. Mishra, I.A.S. ; *Mg. Director :* P. K. Mohanty, I.A.S.

Utkal Foundry & Engg. Co. Ltd., P.O. Remed, Sambalpur 768001.

Chairman : S. B. Mohapatra, I.A.S. ; *Mg. Director :* Benudhar Jena.

PONDICHERRY

Pondicherry Distilleries Ltd., Goubert Avenue, Pondicherry 605001.

It produces 6,000 litres of industrial alcohol per day.

Chairman : E. S. Parthasarathy, I.A.S. ; *Mg. Director :* C. Saravanaperumal.

Pondicherry Industrial Promotion, Devpt. & Investment Corpn. Ltd., 38, Romain Rolland St., Pondicherry 605001.

Chairman : E. S. Parthasarathy, I.A.S. ; *Mg. Director :* R. Padmanabhan, I.A.S.

PUNJAB

Land Devpt. & Seed Corpn. Ltd., 62, Sector 9-A, Chandigarh 160017.

Punjab Agro-Industries Corpn. Ltd., 166, Sector 19-A, Chandigarh 160017.

Chairman : Sat Paul Mittal ; *Mg. Director :* Naranjan Singh, I.A.S.

Punjab Breweries Ltd., Focal Point Area, P.O. Jamalpur Awana, Ludhiana 141001.

Punjab Dairy Devpt. Corpn. Ltd., 14-A, Madhya Marg, Sector 7-C, Chandigarh 160017.

Chairman : J. S. Tajpuri ; *Mg. Director :* Vacant.

Punjab Export Corpn. Ltd., Kothi No. 117, Sector 18-A, P.B. 20, Chandigarh 160017.

Chairman : S. Paramjit Singh, I.A.S. ; *Mg. Director :* R. Harendra Singh.

Punjab Film & News Corpn., 52, Sector 4-A, Chandigarh 160017.

Punjab Financial Corpn., 72/73, Sector 17-B, Bank Square, Chandigarh 160017.

Chairman : S. P. Bagla, I.A.S.; *Mg. Director :* Iqbal Singh, P.C.S.

Punjab Footwear Ltd., Bhargava Nagar, Jullunder 144001.

Punjab Poultry Corpn. Ltd., 106, Sector 16-A, Chandigarh 160017.

Functions : Manufacture and sale of poultry and cattle feeds at its Feed Processing Centres in Chandigarh, Patiala, Ludhiana, Jullundur, Gurdaspur and Amritsar marketing of eggs and sale of pork/mutton products manufactured at the Pork Plant, Kharar.

Mg. Director : P. R. Agarwal.

Punjab Saltpetre Refinery Ltd., Industrial Estate, Firozepur City 152001.

Chief Executive : P. P. Chopra.

Punjab Scooters Ltd., Nabha 147201.

Promoted by the Punjab State Industrial Development Corpn. Ltd. to manufacture 24,000 'Kesri-Super' 150 cc. scooters per annum.

Director (Technical) : U. Singh.

Punjab Semiconductor Devices Ltd., Kothi No. 14, Sector 10-A, Chandigarh 160011.

To manufacture 10 million semiconductor devices per year covering rectifiers, transistors etc. for entertainment, professional and military applications.

Chairman : T. K. A. Nair, I.A.S. ; *Mg. Director :* Virendra Mohan.

Punjab Spg. & Wvg. Mills Ltd., S.C.O. 54, 55 & 56, Sector 17-A, Chandigarh 160017.

Punjab State Civil Supplies Corpn. Ltd., 106-107-108, Sector 17-D, Chandigarh 160017.

Chairman : S. S. Sharma ; *Mg. Director :* G. P. S. Sahi, I.A.S.

Punjab State Electronics Devpt. & Production Corpn. Ltd., Bank of India Bldg., Sector 17-B, Bank Square, Chandigarh 160017.

Chairman : S. Paramjit Singh, I.A.S. ; *Mg. Director :* Dr. S. K. Mangal.

Punjab State Industrial Devpt. Corpn. Ltd., S.C.O. 54, 55 & 56, Sector 17-A, Chandigarh 160017.

Chairman : S. Paramjit Singh, I.A.S. ; *Mg. Director :* T. K. A. Nair, I.A.S.

Punjab State Handloom & Textiles Devpt. Corpn. Ltd., 25, Madhya Marg, Sector 7-C, Chandigarh 160019.

Chairman-cum-Mg. Director : Dayanand Dhir, I.A.S.

Punjab State Irons Ltd., 30, Bays Bldg., Sector 17, Chandigarh 160017.

Punjab State Small Industries Corpn. Ltd., Batra Bldg., Sector 17, P.B. 11, Chandigarh 160017.

Chairman : S. Paramjit Singh, I.A.S. ; *Mg. Director :* Gokul Patnaik, I.A.S.

Punjab State Tubewell Corpn. Ltd., Kothi No. 77, Sector 8-A, Chandigarh 160017.

Punjab Steel & Alloy Casting Ltd., Room No. 26, 17, Bays Bldg., Sector 17, Chandigarh 160017.

Punjab Tanneries Ltd., Nakodar Rd., Jullundur 144003.

Mg. Director : J. S. Dhamija ; *Works Manager :* Jagjit Singh.

Punjab Tyres Ltd., S.C.O. 54-56, Sector 17-A, Chandigarh 160017.

RAJASTHAN

Aravalli Svachalit Vahan Ltd., 1, Matsya Industrial Area, Alwar 301001.

Promoted by the Rajasthan State Indl. & Mineral Development Corpn. Ltd. to manufacture 24,000 two-wheeler scooters per annum.

Chairman : M. S. Sadasivan, I.A.S. ; *Mg. Director :* Anil Kumar.

Gangasagar Sugar Mills Ltd., Hi-Tech. Glass Division, Dholpur 328001.

The company manufactures Hi-Tech. brand neutral laboratory glasswares and bottles.

Rajasthan Financial Corpn., Surya Nivas, C-18, Bhagwandas Rd., P. B. 63, Jaipur 302001.

Functions : To provide financial assistance to medium and small-scale industrial concerns in the State.

Mg. Director : T. V. Ramanan, I.A.S.

Rajasthan Small Industries Corpn. Ltd., 12, Sahdev Marg, 'C' Scheme, P.B. 180, Jaipur 302005.

Functions : It procures and distributes raw materials to the small scale industrial units ; runs handicrafts emporia at Jaipur, New Delhi, Mount Abu, Agra, Bombay, Chandigarh, Udaipur and Calcutta; organises exhibitions and fairs in the country and abroad for export promotion of handicrafts; runs worsted spinning mills at Churu and Ladnun, a woollen mill at Nawalgarh, a furniture making centre and a design development and research centre for handicrafts and a Trade Centre-cum-Industrial Museum at Jaipur and a bidi factory at Tonk.

Mg. Director : Pawan Chopra, I.A.S.

Rajasthan State Agro Industries Corpn. Ltd., Virat Bhawan, Prithvi Raj Rd., 'C' Scheme, Jaipur 302001.

Chairman : S. L. Khurana, I.A.S.; *Mg. Director :* S. Adaviyappa.

Rajasthan State Dairy Devpt. Corpn. Ltd., R-6, Sahdev Marg, 'C' Scheme, Jaipur 302005.

Chairman : M. M. K. Wali; *Mg. Director :* Dr. N. R. Bhasin, I.A.S.

Rajasthan State Hotels Corpn. Ltd., State Hotel Premises, M. I. Rd., Jaipur 302001.

Objects : To meet the growing needs of internal and external tourist traffic and provide facilities at reasonable rates. The Corporation runs two hotels: (1) State Hotel (Khasa Kothi), Jaipur and (2) State Hotel (Anand Bhawan), Udaipur.

Rajasthan State Industrial & Mineral Devpt. Corpn. Ltd., 100, Jawaharlal Nehru Marg, Jaipur 302004.

Chairman : M. S. Sadasivan, I.A.S.; *Mg. Director :* Rama Kant, I.A.S.

Rajasthan State Mines & Minerals Ltd., 133, Saheli Marg, Udaipur 313001.

Chairman : Mohan Mukherjee, I.A.S.; *Mg. Director :* I. G. Jhingran, I.A.S.

Rajasthan State Tanneries Ltd., State Enterprises Dept., P-6, Tilak Marg, C Scheme, Jaipur 302001.

Mg. Director: Dr. R. Selvarangan.

SIKKIM

Sikkim Mining Corpn., Rangpo 737132. (A joint enterprise of the Govt. of Sikkim and Govt. of India).

Functions : Produces copper, lead and zinc concentrates from poly metallic ore at Bhotang mines, Rangpo.

Chairman : R. Narayanan; *Gen. Manager :* J. P. Tewari.

TAMIL NADU

Madurai Pandiyan Engg. Corpn. Ltd., G.S.T. Rd., Pasumalai, Madurai 625004.

Established under the 'Half-a-Million Job Programme', for providing employment to the unemployed technicians. Undertakes bus body building, tyre retreading, automobile parts reconditioning and maintenance of buses.

Chairman : J. S. Bhango, I.A.S.; *Mg. Director :* D. Mohan.

Poompuhar Shipping Corpn. Ltd., Kuralagam, Madras 600001.

At present engaged principally on coastal trade with two ships carrying coal for Tamil Nadu thermal stations; has plans for early expansion and participation in international trade.

Chairman & Mg. Director : H. M. Singh, I.A.S.

Poompuhar — The Tamil Nadu Handicrafts Devpt. Corpn. Ltd., 2-A, College Rd., Madras 600006.

Chairman : C. V. R. Panicker, I.A.S.; *Mg. Director :* M. Ramakrishnan.

Southern Brick Works Ltd., 8, Mowbrays Rd., Madras 600014.

Gen. Manager : T. Somasunderam

Southern Petrochemical Industries Corpn. Ltd., *Regd. Office :* 99, Armenian Street, Madras 600001. *Principal Office :* 44-A, Mount Rd., Madras 600032.

Functions : The Corporation has set up the "Tuticorin Fertilizer Complex", the largest complex of its kind in Asia, with the Government of Tamil Nadu as co-sponsors in the venture. Capacities in MTs per annum: Ammonia 352,000, Urea 512,000, Sulphuric acid 150,000, Phosphoric acid 52,800, DAP, NP or NPK Complex 186,000.

Chairman : M. A. Chidambaram; *Vice-Chairman & President :* S. Venkitaramanan, I.A.S.

Southern Structurals Ltd., Pattabiram, Madras 600072.

Functions : Manufactures EOT cranes, gantry cranes, mining equipments like bucket wheel excavators, structural fabrications, etc.

Mg. Director : S. Narayan, I.A.S.

State Industries Promotion Corpn. of Tamil Nadu Ltd., Meco House, 11 A/1, Anna Salai, Madras 600002.

Chairman : K. S. Sivasubrahmanyan, I.A.S.; *Mg. Director :* F. J. Vaz, I.A.S.

TACEL Mechanised Brick Plant, Thirumazhisai, Madras 600056.

A project by Tamil Nadu Ceramics Ltd., Madras to produce modular bricks, red clay structurals like hollow ceiling blocks, partition blocks, weather course tiles, facing bricks etc.

Tamil Nadu Agro Industries Corpn. Ltd., Ind. Estate, Guindy, Madras 600032.

Chairman & Mg. Director : Dr. K. Venkataraman, I.A.S.

Tamilnadu Cements Corpn. Ltd., P.O. Tamilnad Cements 626127, via Rajapalayam, Ramanathapuram Dist. *Regd. Office :* 150-A, Anna Salai, LLA Bldgs., Madras 600002.

Manufactures 400,000 tonnes of Arasu brand Portland cement per annum.

Chairman : K. S. Sivasubrahmanyan, I.A.S.; *Mg. Director :* K. A. Nambiar, I.A.S.

Tamil Nadu Ceramics Ltd., 20, Cenotaph Rd., Teynampet, Madras 600018.

Chairman : V. Selvaraj, I.A.S.; *Mg. Director :* P. S. Menon,

Tamil Nadu Chromates & Chemicals Ltd., Plot No. 25, Sipcot Ind. Complex, Post Box No. 2, Karunanidhi Nagar, Ranipet 632403 (N. Arcot Dist.).

Manufactures 3,300 tonnes of Basic Chromium Sulphate Tanning (BCT) powder, 4,350 tonnes of Sodium Dichromate and 3,400 tonnes of Sodium Sulphate.

Chairman : N. S. Bhat; *Mg. Director :* U. V. Kunikullaya.

Tamil Nadu Civil Supplies Corpn. Ltd., 14, Thambusamy Rd., Kilpauk, Madras 600010.

Functions : Market intervention in and price stabilisation of all foodgrains and other essential commodities. Also undertakes wholesale and retail trade in such commodities.

Chairman : K. Diraviam, I.A.S.; *Mg. Director :* G. Rangarao, I.A.S.

Tamil Nadu Dairy Devpt. Corpn. Ltd., 39, Spur Tank Rd., Chetput, Madras 600031.

Functions : The Corporation is in charge of development of dairying in Tamil Nadu. It is also implementing the World Food Programme Project 'Operation Flood'

Chairman : V. Karthikeyan, I.A.S.; *Mg. Director :* M Raghupathy, I.A.S.

Tamilnadu Fisheries Devpt. Corpn. Ltd., 65, Greams Rd., Madras 600006.

Functions : Construction and distribution of mechanised fishing boats ; marketing of fish and fish products ; has a fish meal plant at Mandapam and processing plants at Ennore, Mandapam and Tuticorin.

Chairman : G. Thirumal, I.A.S. ; *Mg. Director :* K. S. Ramakrishnan, I.A.S.

Tamil Nadu Fluorine & Allied Chemicals Ltd., Visalakshinagar 625401, Madurai.

A project to be located at Manalur, in Ramanathpuram Dist., for the manufacture of Aluminium Fluoride with an annual capacity of 6,000 tonnes, it is expected to go into production by mid 1980.

Chairman : K. S. Sivasubrahmanyan, I.A.S. ; *Mg. Director :* L. Narayanan Chettiar.

Tamil Nadu Forest Plantation Corpn. Ltd., A-8, 11th Cross, Thillainagar, Tiruchirapalli 620018.

Chairman : G. Thirumal, I.A.S.; *Mg. Director :* K. P. D. Rao, I.F.S.

Tamil Nadu Handicrafts Devpt. Corpn. Ltd., (See Poompuhar in this list).

Tamil Nadu Handloom Finance & Trdg. Corpn. Ltd., 46-D, (New No. 169), North Usman Rd., T. Nagar, Madras 600017.

Chairman: V. Sankarasubbaiyan, I.A.S. ; *Executive Director :* M. Mathew Joseph.

Tamil Nadu Harijan Housing & Devpt. Corpn. Ltd., 2, Vasu St., Kilpauk, Madras 600010.

Construction of houses for Harijans and hostels for scheduled caste and backward class students.

Chairman : P. Kandasamy, I.A.S. ; *Mg. Director :* C. Chellappan, I.A.S.

Tamil Nadu Industrial Devpt. Corpn. Ltd., 150-A, Anna Salai, Madras 600002.

TIDCO has so far promoted 29 ventures, 4 in the public sector and 25 in the joint sector. Of these, Tamil Nadu Cements Corpn., Ltd., Alangulam and Tamil Nadu Steels, Arkonam (both in the public sector) have already gone into production. In joint sector, the following projects are also in production : Southern Petrochemical Ind. Corpn. Ltd. (Fertilisers) ; Tamil Nadu Chromates & Chemicals Ltd. (B.C.T. Powder) ; Pandian Chemicals Ltd. (Potassium Chlorate) ; Asia Tobacco Co. Ltd. (Cigarettes) ; Dynavision Ltd. (Televisions) ; Southern Boraax Ltd. (Borax) ; Marthi Crystal Salt Co. Ltd. (Industrial Salt) ; Tamil Nadu Dadha Pharmaceuticals Ltd. (Drugs & Pharmaceuticals) ; Arkonam Castings & Forgings Ltd. (Heavy Steel Castings) ; Tamil Nadu Alkaline Batteries Ltd. (Nickel Cadmium Cells) ; Great Sea Trawler Bldg. Yard Mandapam Ltd. (Fishing Trawler Repair Works) ; Tamil Nadu Chemical Products Ltd. (Sodium Hydrosulphite).

Chairman : K. S. Sivasubrahmanyan, I.A.S.; *Mg. Director :* A. Padmanabhan, I.A.S.

Tamil Nadu Industrial Investment Corpn. Ltd., Arul Manai, 26, Whites Rd., Madras 600014.

Functions : Help set up industries in Tamil Nadu and Pondicherry, by providing term loans for land, building and machinery.

Chairman : Dr. James S. Raj ; *Mg. Director :* M. N. Govindraj.

Tamil Nadu Mopeds Ltd., Industrial Estate, Guindy, Madras 600032.

Tamil Nadu Poultry Devpt. Corpn. Ltd., 110-A, Anna Salai, Teynampet, Madras 600018.

Mg. Director : Santha Sheela Nair, I.A.S.

Tamil Nadu Public Works Engg. Corpn. Pvt. Ltd., No. 129, 'Shivalaya', 16, Commander-in-Chief Rd., Madras 600008.

Mg. Director : S. Shanmugasundaram.

Tamil Nadu Salt Corpn. Ltd., Meco House, 11-A/1, Anna Salai, Madras 600002.

Mg. Director : Dr. M. I. Mathews.

Tamil Nadu Small Industries Corpn. Ltd., 5, Greams Rd., Madras 600006.

Chairman : T. N. Seshan, I.A.S.; *Mg. Director :* R. Shunmugham, I.A.S.

Tamil Nadu Small Industries Devpt. Corpn. Ltd., 4, Whites Rd., Madras 600014.

Functions : Assisting the growth of small industries in Tamil Nadu.

Chairman : K. P. Geethakrishnan, I.A.S. ; *Mg. Director :* V. Sundaram, I.A.S.

Tamil Nadu State Farm Corpn. Ltd., 9-D, Edward Elliot Rd., Madras 600004.

Tamil Nadu Steels, Arkonam 631004 (Unit of TIDCO). Set up with Soviet technical assistance to produce 50,000 tonnes of steel billets per annum utilising the continuous casting technique. First mini steel plant in the public sector in India.

Gen. Manager : R. Rajamani.

Tamil Nadu Sugar Corpn. Ltd., 33, Karunanidhi Bldgs., Anna Rd., Nandanam, Madras 600035.

Functions : To design, construct and run sugar factories in the state.

Chairman : C. Ramdas, I.A.S. ; *Mg. Director :* V. Lakshmi Ratan, I.A.S.

Tamilnadu Sugarcane Farm Corpn. Ltd., 85, Chinnapalli St., Koothanallur 614101, Thanjavur Dist.

Chairman : V. Lakshmiratan, I.A.S. ; *Mg. Director :* N. Subramanian.

Tamilnadu Tea Plantation Corpn. Ltd., Hill Cottage, Coonoor 643102 (Nilgiris Dist.).

Functions : To employ and resettle the repatriates from Sri Lanka in plantation schemes and to rehabilitate them in the forest areas of the State.

Chairman : G. Thirumal, I.A.S. ; *Mg. Director :* K. Durairaj, I.F.S.

Tamil Nadu Theatre Corpn. Ltd., Institute of Film Technology Bldgs., Adyar, Madras 600020.

Chairman : K. Subrahmanyam, I.A.S. ; *Mg. Director :* N. Krishnamurthy, I.A.S.

Tamil Nadu Tourism Devpt. Corpn. Ltd., 34, Anna Salai, Madras 600002.

Functions : The Corporation runs tourist bungalows at Ooty, Hogenakkal, Yercaud, Kodaikanal, Madurai, Trichy, Kanyakumari, Tiruchendur, Rameswaram, Mahabalipuram, Chidambaram and Thanjavur. Motels are under completion at Ranipet and Ulundurpet. It also conducts three package tours all over the State by luxury coaches.

Chairman : C. V. R. Panikar, I.A.S. ; *Mg. Director :* J. R. Ramanathan, I.A.S.

Tamilnadu Transport Devpt. Finance Corpn. Ltd., 5, Greams Rd., Madras 600006.

Mg. Director : Sukavaneshvar, I.A.S.

Tamil Nadu Warehousing Corpn., 4, D. Mudaly St., Chetput, Madras 600031.
Mg. Director : K. Lakshmikanthan Bharathi, I.A.S.

Tamil Nadu Zari Ltd., No. B-8, Mahendra Pallaven St., Mamallan Nagar, Kancheepuram 631501.

Tansi Wool Processing Centre, Vinnamangalam Minnur 635807, N. Arcot Dist.
Processes tannery wool/hairs to meet the requirements of drugget, carpet and felt manufacturers of Australia and India. The production capacity is 800 tonnes per year.
Chairman : K. P. Geethakrishnan, I.A.S. ; *Mg. Director :* V. Sundaram, I.A.S.

TRIPURA

Tripura Handloom & Handicrafts Devpt. Corpn. Ltd., Jail Rd., Agarthala 799001.
Executive Officer : M. J. Bhatt.

Tripura Ind. Devpt. Corpn. Ltd., Agartala 799001.

Tripura Jute Mills Ltd., Arundhutinagar, Agartala 799003.
Chairman : D. N. Barua ; *Ch. Exve. Officer :* N. K. Dutta.

Tripura Small Industries Corpn. Ltd., P.O. Agartala 799001.
Functions : To aid, advise, finance and promote the interests of small industries in Tripura. The Corporation also runs ASCU Timber Treatment and Seasoning Plant, khandsari sugar mill, one fruit canning factory and a pharmaceutical unit.
Mg. Director : N. K. Dutta.

UTTAR PRADESH

Allahabad Mandal Vikas Nigam Ltd., 32/14-A, Stanley Rd., Allahabad 211002.
To set up industries at and based on locally available raw materials of the five districts of Allahabad, Kanpur, Fatehpur, Etawah and Farrakkabad.
Gen. Manager : Naresh Kochhar.

Almora Magnesite Ltd., Matela, P.O. Bilhori 263631, Almora Dist.
Chairman : D. K. Bhattacharya, I.A.S. ; *Gen. Manager :* R. N. Bhargava.

Auto Tractors Ltd., Tej Bahadur Sapru Mrg., Lucknow 226001.
Functions : Manufactures agricultural tractors and diesel engines in Pratapgarh in technical collaboration with British Leyland of U.K.
Chairman & Mg. Director : N. S. Chowdhary, I.A.S.

Bundelkhand Concrete Structurals Ltd., 86, Civil Lines, Jhansi 284001.

Gandak Command Area Devpt. Authority, Civil Lines, Gorakhpur 273001.
Chairman : V. K. Dikshit, I.A.S. ; *Secretary :* Lalit Srivastava, I.A.S.

Indian Turpentine & Rosin Co., Ltd., P.O. Clutterbuckganj 243502, Bareilly Dist.
From crude resin, the company manufactures turpentine and rosin of international repute. The gum of pine trees is being obtained from the Kumaon, Garhwal and Tehri forests of U.P. It is also manufacturing Ester gum AEA and rubber emulsifier from rosin.
Chairman : N. M. Majmudar, I.A.S. ; *Mg. Director :* B. H. Hingorani, I.F.S.

Kichha Sugar Co. Ltd., 25B, Ashok Marg, Lucknow 226001.

Kumaon Mandal Vikas Nigam Ltd., Nainital 263001. (Formerly U.P. Hill Devpt. & Corpn. Ltd.).
Functions : Development of tourism, industries and marketing of the produce of Kumaon Division of the State.
Chairman : Dr. J. P. Singh ; *Mg. Director :* N. D. Bachkheti.

Mohammadabad Peoples' Tannery Ltd., Kalakankar, Lucknow 226001.

New Okhla Ind. Devpt. Authority, New Delhi House, 27, Barakhamba Rd., New Delhi 110001.

Northern Electrical Equipment Ind. Ltd., Kotwara.

Pradeshiya Ind. Investment Corpn. of Uttar Pradesh Ltd., No. 51, Sachivalaya, Lucknow 226001.

Pradeshiya Industrial & Investment Corpn. of U.P. Ltd., Jawahar Bhavan Annexe, Ashok Marg, Lucknow 226001.
Chairman : D. K. Bhattacharya, I.A.S. ; *Mg. Director :* N. S. Chowdhary, I.A.S.

Ramganga Command Area Devpt. Authority, 3-A/101, Azad Nagar, Kanpur 208002.
Chairman : S. S. Ahmad, I.A.S. ; *Secretary :* M. Ranjan.

Trans Cables Ltd., Fonsica Estate, Kathgodam 263126, Nainital Dist.
Chairman : G. D. Pant ; *Mg. Director :* N. D. Bachkheti.

Turpentine Subsidiary Ind. Ltd., P.O. Clutterbuckganj, Bareilly 243001.

U. P. Electronics Corpn. Ltd., 4, Prag Narain Rd., Lucknow 226001.
Mg. Director : Lt.-Col. B. K. Rai (Retd.).

U.P. Export Corpn. Ltd., B-27, Sarvodaya Nagar, Kanpur 208005.
Mg. Director : C. M. Vasudev.

U.P. Financial Corpn., 14/88, Civil Lines, Kanpur 208001.
Chairman : P. P. Khanna, I.A.S. ; *Mg. Director :* Surendra Mohan, I.A.S.

Uttar Pradesh Devpt. Systems Corpn. Ltd., 9, Sarojini Naidu Marg, P.B. No. 116, Lucknow 226001.
Chairman : D. K. Bhattacharya, I.A.S. ; *Mg. Director :* Anand Sarup.

Uttar Pradesh Forest Corpn., B-932, Mahanagar, Lucknow 226006.
Mg. Director : D. N. Misra, I.F.S.

U.P. Hill Devpt. Corpn. Ltd. (See Kumaon Mandal, Vikas Nigam Ltd. in this list).

Uttar Pradesh Industrial Consultants Ltd., 7/35, Tilak Nagar, Kanpur 208002.
A subsidiary of Industrial Development Bank of India, the Company undertakes trade, technological and management consultancy in the State.
Chairman : D. P. Gupta ; *Mg. Director :* D. B. Sahae.

U.P. Instruments Ltd., Aishbagh Rd., P. B. 153, Lucknow 226004.
The factory produces watermeters of 15 mm, 20 mm and 25 mm sizes, microscopes and pressure gauges in various ranges, magneto and speedometers for scooters.
Mg. Director : V. K. Khanna.

Uttar Pradesh Jal Nigam, 6, Ranapratap Marg, Lucknow 226001.

Functions : To plan, finance and implement programmes for providing adequate water supply and sewerage facilities in the State ; to arrange for training and research.

Chairman : P. R. Vyas Bhiman, I.A.S. ; *Mg. Director :* K. N. Dwivadi.

U. P. Poorvanchal Vikas Nigam Ltd., 33, Civil Lines, Faizabad 224001.

U. P. Rajkiya Nirman Nigam Ltd., Ashok Marg, Lucknow 226001.

Chairman : R. Coomar ; *Mg. Director :* P. N. Roy.

U. P. Schedule Caste Finance & Devpt. Corpn. Ltd., 12-B, Mall Avenue, Lucknow 226001.

Chairman-cum-Mg. Director : D. P. Varun, I.A.S.

U.P. Small Industries Corpn. Ltd., B-15, Sarvodaya Nagar, Kanpur 208005.

Mg. Director : S. N. Shukla, I.A.S.

U. P. State Agro Industrial Corpn. Ltd., 22, Vidhan Sabha Marg, Lucknow 226001.

Activities : Distributes tractors, manufactures various types of agricultural implements and quality cattle and poultry feeds and distributes it to cultivators ; its agro-service centres are providing custom and hiring facilities to cultivators all over the State ; its processed foods division is running 8 factories in U.P. It is exporting mango juice and other items to U.S.S.R. and other countries of Middle East and W. Europe.

Chairman : Rajendra Singh.

U.P. State Brassware Corpn. Ltd., Sambhali Gate, P. Box No. 16, Moradabad 244001.

Functions : Aids, finances, promotes and assists the artisans and manufacturers of brass artware/EPNS ware/ domestic utensils.

Mg. Director : P. C. Pande.

U. P. State Bridge Corpn. Ltd., 16, Madan Mohan Malviya Marg, Lucknow 226001.

Functions : To construct all types of bridges.

Chairman : R. Coomar, I.A.S.; *Mg. Director :* D. C. Chaturvedi.

U.P. State Cement Corpn. Ltd., Churk 231206, Mirzapur Dist.

Functions : The Corporation has two cement plants at Churk and Dalla with annual rated capacity of 480,000 tonnes and 400,000 tonnes respectively of cement. It has set up in the joint sector an asbestos sheet manufacturing factory in Lucknow district with 36,000 tonnes per annum capacity and a 140 cu. mtr./hr. oxygen gas factory at Unnao. The Corporation is making headway with its Kajarahat-Chunar Cement Project for installation of 800,000 tonnes clinker capacity at Dalla, in addition to the existing plant, and under it, 1·68 million tonnes per annum PBAS cement capacity at Chunar in Mirzapur district.

Uttar Pradesh State Food & Essential Commodities Corpn. Ltd., 17, Gokhale Marg, Lucknow 226001.

Chairman : Dr. Rama Ballabh ; *Mg. Director :* Mukul Sanwal.

Uttar Pradesh State Handloom & Powerloom Finance & Devpt. Corpn. Ltd., Udyog Bhavan, G. Trunk Rd., Kanpur 208001.

U. P. State Industrial Devpt. Corpn. Ltd., 117/130, Sarvodaya Nagar, P.B. 413, Kanpur 208005.

Chairman : P. P. Khanna, I.A.S. ; *Mg. Director :* S. A. T. Rizvi, I.A.S.

U.P. State Leather Devpt. & Marktg. Corpn. Ltd., Charam Kala Bldg., Hing Ke Mondi, Agra 282003.

Chairman : Surendra Singh ; *Acting Mg. Director :* Dharmendra Dev.

U. P. State Mineral Devpt. Corpn. Ltd., B-52, Mahanagar Extension, Lucknow 226006.

Chairman : Vacant ; *Mg. Director :* Ravi Prakash, I.A.S.

U.P. State Spinning Mills Co. (No. I) Ltd., B-2, Sarvodaya Nagar, Kanpur 208005.

To carry on business of cotton and staple yarn production. In pursuit of this, the Company is putting up four spinning mills in backward districts of Rae Bareli, Bara Banki, Akbarpur (Faizabad) and Maunath Bhanjan (Azamgarh).

Chairman : T. N. Sharma ; *Mg. Director :* O. N. Vaid.

U. P. State Sugar Corpn. Ltd., 25-B, Ashok Marg, Lucknow 226001.

Functions : The Corporation at present manages ten sugar factories vested in it under the U.P. Sugar Undertaking (Acquisition) Act, 1971.

Chairman : N. M. Majumdar, I.A.S. ; *Mg. Director :* N. R. Banerji, I.A.S.

U. P. State Textile Corpn. Ltd., 7-B, Sarvodayanagar, Kanpur 208005.

The Corporation is establishing its own spinning mills in the State.

Chairman : R. K. Trivedi, I.A.S. ; *Mg. Director :* Prabhat Kumar, I.A.S.

Uttar Pradesh State Tourism Devpt. Corpn. Ltd., 6, Sapru Marg, Lucknow 226001.

WEST BENGAL

Calcutta Metropolitan Devpt. Authority, 3A, Auckland Place, Calcutta 700017.

Functions : Established in 1970 for the development of Calcutta and the metropolitan area.

Chairman : Jyoti Basu.

Durgapur Chemicals Ltd., 6, Little Russel St., Calcutta 700016.

Chairman : S. Dutta ; *Mg. Director :* Dr. S. N. Nag.

Durgapur Projects Ltd., Regd. Office : Administrative Bldg., Durgapur 713201, Dist. Burdwan. Calcutta Office : 1, Shakespeare Sarani, Calcutta 700071.

Products : B. P. Hard Coke, Nut Coke, Benzene, Industrial Toluol, Motor Benzol, Light Solvent Naphtha, Lux Mas, Carbolic oil, Naphthalene oil, Crude Naphthalene, Anthracene oil, Timber Pickling oil, Sodium Phenolate and Road Tar (Nos. 3 & 4).

Chairman : S. Dutta, I.A.S. ; *Mg. Director :* M. K. Dasgupta, I.A.S.

Electro-Medical & Allied Industries Ltd., 4/2, B. T. Rd., Calcutta 700056.

The Company manufactures various types of X-Ray & Bio-Medical equipments.

Chairman : S. S. Dutta ; *Mg. Director :* B. B. Das.

Industrial Containers Ltd., 21, N. Subhas Rd., Calcutta 700001.

Kalyani Spinning Mills Ltd., 6A, Raja S. Mullick Square, Calcutta 700013. *Works :* Kalyani and Habra.

Range of Production : Weaving yarn in banks and cones and sewing thread. *Installed Capacity :* 83,956 spindles. Production during 1975-76 : 1,295,090 kgs.

Chairman : A. C. Sinha ; *Mg. Director :* M. K. Bose, I.A.S.

State Fisheries Devpt. Corpn. Ltd., 43, Shakespeare Sarani, Calcutta 700017.

Chairman & Mg. Director : S. M. Murshed, I.A.S.

Steel Containers Ltd., 21, N. Subhas Rd., Calcutta 700001.

West Bengal Agro-Industries Corpn. Ltd., 23B, N. Subhas Rd., Calcutta 700001.

Mg. Director : S. K. Basu Ray.

West Bengal Ceramic Devpt. Corpn. Ltd., 71, Abinash Chandra Banerjee Lane, Calcutta 700010.

West Bengal Dairy & Poultry Devpt. Corpn. Ltd., 16, N. Subhas Rd., Calcutta 700001.

Mg. Director : S. P. Nandi.

West Bengal Electronics Ind. Devpt. Corpn. Ltd., 225E, Acharya J. C. Bose Rd., Calcutta 700020.

Chairman : Amitava Palchoudhuri ; *Mg. Director :* Dr. B. Nag.

West Bengal Essential Commodities Supply Corpn. Ltd., 11A, Mirza Ghalib St., Calcutta 700016.

Mg. Director : B. Majumdar.

West Bengal Financial Corpn., 4, Kiron Sankar Roy Rd. (1st Fl.), Calcutta 700001.

Chairman : S. P. De, I.A.S. ; *Mg. Director :* B. Sen Gupta, I.A.S.

West Bengal Forest Devpt. Corpn. Ltd., 6A, R. S. Mullick Square, Calcutta 700013.

Mg. Director : P. K. Ray.

West Bengal Handloom & Powerloom Devpt. Corpn. Ltd., 6A, Raja S. Mullick Square, Calcutta 700013.

Mg. Director : A. N. Bhattacharjee.

West Bengal Industrial Devpt. Corpn. Ltd., 23A, N. Subhas Rd., Calcutta 700001.

Functions : The Corporation provides incentives to medium and large scale industries besides offering financial assistance. Of the joint sector projects Telerama TV sets and Digvijai Scooters have come into production.

Chairman : S. Dutt-Mazumdar ; *Mg. Director :* A. K. Dutt, I.A.S.

West Bengal Livestock Processing Devpt. Corpn. Ltd., 6A, Raja Subodh Mullick Sqr., Calcutta 700013.

Chairman : Amritendu Mukherji ; *Mg. Director :* P. B. Kundu.

West Bengal Mineral Devpt. & Trdg. Corpn. Ltd., 13, Lindsay St., Calcutta 700016.

Chairman : C. T. Das ; *Mg. Director :* S. L. Chakravorty.

West Bengal Pharmaceutical and Phytochemical Devpt. Corpn. Ltd., Ilaco House, 1 & 3, Brabourne Rd., Calcutta 700001.

Chairman : Prof. Dr. Asima Chatterjee ; *Mg. Director :* Dr. D. Ghosh.

West Bengal Small Industries Corpn. Ltd., 6A, Raja Subodh Mullick Square (3rd Fl.), Calcutta 700013.

Chairman : S. P. De, I.A.S. ; *Mg. Director :* A. Deb, I.A.S.

West Bengal State Minor Irrigation Corpn. Ltd., 5, Mustaque Ahmed St., Calcutta 700016.

West Bengal State Leather Ind. Devpt. Corpn. Ltd., P-8, Hide Lane, Calcutta 700012.

Chairman & Mg. Director : P. Raichaudhuri, I.A.S.

West Bengal State Textile Corpn. Ltd., Writers Bldg., Calcutta 700001.

West Bengal State Warehousing Corpn., 6A, R. S. Mullick Square, Chandra Ave., Calcutta 700013.

Chairman : S. K. Chatterji, I.A.S. ; *Mg. Director :* S. K. Magon, I.A.S.

West Bengal Sugar Ind. Devpt. Corpn. Ltd., 13, Lindsay St., Calcutta 700016.

Mg. Director : G. C. Bhattacharyya.

West Bengal Tourism Devpt. Corpn. Ltd., 3/2, B.B.D. Bag, Calcutta 700001.

Westinghouse Saxby Farmer Ltd., 17, Convent Rd., Entally, Calcutta 700014.

Mg. Director : D. K. Chakraborti.

STATE ASSOCIATIONS

ANDHRA PRADESH

COMMERCIAL

Agricultural Co-op. Assocn. Ltd., Hyderabad, Haca House, opp. Public Gardens, Hyderabad 500004.

Agricultural Machinery and Implements Mfrs. Assocn., Andhra Pradesh, 3-5-822/6, Hyderguda, Hyderabad 500001.

Animal Feeds Mfrs. Assocn., C/o Feeds and Farms, 1, E. P. Rao Nagar, Secunderabad 500025.

Bankers & Pawn Brokers Assocn., Andhra Pradesh, Kimtee Bhavan, Hashmatgunj, Sultan Bazar, Hyderabad 500001.

Banks' Assocn., Andhra Pradesh Co-op., 5-9-343, A. P. State Co-op. Union Bldg., Gunfoundry, Hyderabad 500001.

Beedies & Cigarettes Wholesale Merchants Assocn., Main Bazar, Guntur 522003.

Brass and Copper Sheet Consumers' Assocn., Andhra Pradesh, Gunduvari St., Rajahmundry 533101.

Builders' Assocn. of India, C/o Prasad Industries, 5-9-18/9, Saifabad, Hyderabad 500022.

Bullion & Jewellery Merchants Assocn., Guntur, Main Rd., Guntur 522001.

Bus Owners' Assocn., Secunderabad, 8, St. Mary's Rd., Secunderabad 500003.

Chillies Merchants Assocn., Guntur, Volcot Dada Lane, Lalapet, Guntur 522003.

Chillies Merchants' Assocn., Rajahmundry, Rajahmundry 533101.

Coir Rope Dealers Assocn., Guntur Retail, Near Fruit Mkt., Guntur 522003.

Corrugated Box Mfrs. Assocn., Andhra Pradesh, Shankerlal Bldg., Abid Rd., Hyderabad 500001.

Dal Mills and Merchants Assocn., Hyderabad, Hukhtargunj, Hyderabad 500012.

Distillers' Assocn., Andhra Pradesh, Plot No. 101, Srinagar Colony, Yellareddiguda, Hyderabad 500038.

Dyes & Chemical Merchants' Assocn, Secunderabad, C/o Rajeshwar Trading Co., 3-4-23, Mahankali St., Secunderabad 500003.

Electronic Industries Assocn. of Andhra Pradesh, 125, Kavadiguda, Secunderabad 500003.

Estate Industries Assocn., Station Rd., Guntur 522001.

Estate Industrialists Assocn., Visakhapatnam, C-9, Ind. Estate, Visakhapatnam 530007.

Export Merchants' Assocn., Eluru Bazar, Guntur 522003.

Exporters Assocn., Andhra Produce, 9-13-711, Ramgopal St., Vijaywada 520001.

Fertiliser Co-op. Ltd., Indian Farmers, 5-9-16 1/4, Chapel Rd., Hyderabad 500001.

Film Chamber of Commerce, Hyderabad State, 3464 (4-3-316), Rashtrapathi Rd., Secunderabad 500003.

Film Exhibitors Assocn., Royal Talkies Bldg., Sultan Bazar, Hyderabad 500001.

Fishermen's Central Co-op. Socy. Ltd., Hyderabad, Tank Bund, Hyderabad 500004.

Foundries Assocn., Andhra Pradesh State, C/o Fedn. of A. P. Chambers of Commerce & Ind., 3-5-822/6, Hyderguda, Hyderabad 500001.

Foundry Engineering Workshops Assocn., Vijayawada, Cement St., Vijayawada 520001.

Fruit Merchants Assocn., Andhra, Alcot Gardens, Rajahmundry 533101.

Gold, Silver, Jewellery & Diamond Merchants Assocn., Andhra Pradesh, Sarafa Bazar, Secunderabad 500003.

Grain & Seeds Merchants Assocn., Andhra Pradesh, B-11-939, Osmanganj, Hyderabad 500012.

Grape Growers' Assocn., Andhra Pradesh, C/o Gunatit Vine Orchard, Mansoorabad, Hyderabad 500035.

Groundnut Merchants' Assocn., Madanapalle Division, Patha Kacheri St., Madanapalle 517325.

Graphite Crucible Mfrs. Assocn., All India, Rajahmundry 533103.

Gunny Merchants Assocn., Andhra Pradesh, 15-2-462, Kishanganj, Hyderabad 500012.

Gunny Traders' Assocn., Andhra State, 11-245, Bhavanarayana St., Vijayawada 520001.

Handloom Weavers Central Co-op. Assocn. Ltd., Hyderabad, 3-5-770, Narayanguda, Hyderabad 500029.

Hides & Skins Merchants' Assocn. Andhra Pradesh, Tarapet, Vijayawada 520001.

Hides & Skins Merchants' Assocn., Rajahmundry 533101.

Hotels Assocn., Andhra Pradesh, 93, Sarojini Devi Rd., Secunderabad 500003.

Manufacturers' Orgn., All India, Barman Bldgs., Gunfoundry, Hyderabad 500001.

Marketing Federation Ltd., Andhra Pradesh State Co-operative, 5-268, Jambagh Rd., Hyderabad 500001.

Master Printers' Assocn., Andhra Pradesh, Kakinada 533001.

Mica Assocn., Madras, Gudur 524101. Nellore Dist.

Motor Unions Congress, Andhra Pradesh, 4-3-349, Bank St., Sultan Bazar, Hyderabad 500001.

Oil Industry Assocn., All India Non-edible, 3-5-45/2, E. Bagh, Hyderabad 500001.

Oil Millers Assocn., Andhra Pradesh, 15-2-677, Kishanganj, Hyderabad 500012.

Oil & Seeds Exchange Ltd., Hyderabad, 15-2-677, Kishanganj, Hyderabad 500012.

Oilseeds & Oils Exchange Ltd., Adoni, Door No. 481, Ward No. XV, Gosha Hospital Rd., Adoni 518301.

Paper & Board Industries Co-op. Socy. Ltd., Handmade, Outside Gazi Bunda, Hyderabad 500002.

Paper Industrial Co-op. Socy. Ltd., Handmade, Mustaidpura, Hyderabad 500006.

Paper Merchants' Assocn., Andhra Pradesh 3364, Rashtrapati Rd., Secunderabad 500003.

Pharmaceutical Assocn., Indian, 5-9/35/3, Basheer Bagh Rd., Hyderabad 500029.

Pharmaceutical & Chemical Mfrs.' Assocn., Andhra Pradesh, 3-5-1102, Narayanguda, Hyderabad 500029.

Pesticides Formulators' Assocn., Andhra Pradesh, Vijay & Co. Bldg., Main Rd., Guntur 522001.

Productivity Council, Andhra Pradesh, 10-1-200, Mahaveer Mrg., P.B. No. 21, Hyderabad 500004.

Publishers & Booksellers Assocn. of Andhra Pradesh, Vijayawada 520002.

Readymade Dress Dealers & Mfrs.' Assocn., Guntur, 18, Gandhi Park Rd., Guntur 522003.

Roads & Transport Devpt. Assocn., Indian, C/o Premier Tyres Ltd., 5-5-489, Mukarram Jahi Rd., Hyderabad 500001.

Silk Cloth Merchants' Assocn., Hyderabad Wholesale, Art, 21-2-628/9, Urdushariff, Hyderabad 500002.

Small Industries Assocn., Andhra Pradesh, Convent St., Vijayawada 520001.

Small Scale Industries Assocn., Guntur Dist. Rural, Kollipara 522304.

Soap Mfrs.' Assocn., Andhra Pradesh, 15-1-269, Goshamahal Rd., Topkhana, Hyderabad 500001.

Spg. Mills Ltd., Andhra Pradesh State Fedn. of Co-op., Church of S. India Bldg., Tilak Rd., Hyderabad 500001.

Steel Re-Rollers Assocn., Andhra Pradesh, 3-5-822/6, Hyderguda, Hyderabad 500001.

Stevedores Assocn., Visakhapatnam, Roychatt Bldg., Godeyvari St., Visakhapatnam 530001.

Stock Exchange, Hyderabad, Shahrah-E-Osmani, Hyderabad 500001.

Stone Quarry Lease Holders' Assocn., Shahabad, 5-2-993, Nizamshahi Rd., Hyderabad 500001.

Sugar Factories Ltd., Andhra Pradesh State Fedn. of Co-op., 3-4-760, Barkatpura, Hyderabad 500027.

Sugar Mfrs.' Assocn., Telengana Rayalaseema Khandsari, 15-1-503 B 23, 24 & 25, Ashok Market, Siddiamber Bazar, Hyderabad 500012.

Textile Assocn., Andhra Pradesh Fedn. of, 344, Ramgopalpet, Secunderabad 600003.

Timber Merchants' Assocn., C/o Sri Lakshminarayan & Co., 5-5-695, Gosha Mahal, Hyderabad 500012.

Tobacco Assocn., Indian, Srinivasrao Thota, G.T. Rd., Guntur 522004.

Tobacco Merchants Assocn., Guntur, Cloth Bazar, Guntur 522003.

Tobacco Merchants' Assocn., Rajahmundry 533101

Tobacco Wholesale & Retail Merchants' Assocn., Guntur Town Country, Bandala Bazar, Guntur 522003.

Turmeric Merchants' Assocn., Cuddapah, Mundy Bazar, Cuddapah 516001.

Vegetable Growers' Co-op. Socy. Ltd., HACA House, Opp. Public Gardens, Hyderabad 500004.

Village Industries Assocn., Yousafian, 12-2-6, Asaf Nagar, Hyderabad 500028.

Women's Industrial Co-op. Socy. Ltd., Hyderabad, 11-3-919, New Mallepally, Hyderabad 500001.

Wool Industrial Co-op. Socy. Ltd., Hyderabad, 15-7-277, M.J. Bridge, Hyderabad 500002.

CULTURAL, SOCIAL AND PROFESSIONAL

Arogyavaram Devpt. Socy., Post Box 13, Madanapalle 517325, Chittoor Dist. A community devpt. project sponsored by E.Z.E. Bonn, West Germany.

Astronomical Socy. of India, C/o Deptt. of Astronomy, Osmania Univ., Hyderabad 500007.

Athletic Assocn., Andhra Pradesh Amateur, F-1, Bachelors Qrtrs., Osmania Univ. Campus, Hyderabad 500007.

Ayurveda & Homoeopathy, Boards for, 3-3-79, Kutab Guda, Hyderabad 500027.

Ball Badminton Fedn. of India, 'Maman', Saifabad, Hyderabad 500004.

Carrom Assocn., Andhra State, C/o Guntur Rec. Club, 3rd Lane, Arundalpet, Guntur 522002.

Carrom Assocn., Hyderabad, Room No. 33 (Block III), Lal Bahadur Stadium, Hyderabad 500001.

Chartered Accountants of India, Instt. of, C/o FAPC I, 3-5-822/6, Hyderguda, Hyderabad 500001.

Chartered Accountants of India, Instt. of, Congress Office Rd., Vijayawada 520002.

Child Welfare, Andhra Pradesh State Council for, 6-3-1247, Somajiguda, Raj Bhavan Rd., Hyderabad 500482.

Child Welfare, Indo-Dutch Project for, (Stichting Nederlands Kinderhulp Plan), 6-3-885, Somajiguda, Hyderabad 500029.

Children's Aid Socy., Hyderabad, R. K. Home, 3-6-438, Himayatnagar, Hyderabad 500008.

Children's Welfare Socy., Helpless, 10-1-23, Canal Rd., Narsapur 534275, W. Godavari Dist.

College Library Assocn., Indian, 25, Bahadurpura Colony, Hyderabad 500002.

Cost Accountants, Hyderabad Chapter of, 3-5-1091/9, Narayanguda, Hyderabad 500029.

Cricket in India, Board of Control for, Jaffer Ali Bagh, Somajiguda, Hyderabad 500482.

Dowsers, Indian Socy. of, 1-8-7/13, Sarvodaya Colony, Chikadpally, Hyderabad 500020.

Engineers (India), Insttn. of, (A.P. Centre) Khairatabad, Hyderabad 500004.

Family Planning Assocn. of India, Opp. Challapalli House, Begumpet, Hyderabad 500016.

Football Assocn., Andhra Pradesh, Lal Bahadur Stadium, Fateh Maidan, Hyderabad 500001.

Ford Foundation, 6-3-1109/1, Raj Bhavan Rd., Hyderabad 500004.

Geographical Socy., Deccan, 120-A, Nehru Nagar, Secunderabad 500026.

Hockey Assocn., Hyderabad, Gymkhana Grounds, Secunderabad 500003.

Indo-Arab Assocn., Ali Cottage, Mukarram Jahi Rd., Hyderabad 500001.

Indo-Soviet Philatelic Socy., 17-5-208, Osmania Masjid, Bibi Alawa, Hyderabad 500024.

Krishna Consciousness, International Socy. for, 14-3-332/16-1, Gyan Bagh Colony, Hyderabad 500012.

Mahila Sabha, Andhra, 2-1-370, Vijayanagar, Hyderabad 500960.

Materials Management, Indian Assocn. of, C/o Administrative Staff Coll. of India, Bella Vista, Hyderabad 500004.

Medical Aid Assocn., Hyderabad Women's & Children's, 11-4-618, A. C. Guards, Hyderabad 500004.

Medical Assocn., Indian, IMA Bldg., Sultan Bazar, Hyderabad 500027.

Metropolitan Project, Hyderabad, 2-2-11/1, Bagh Amberpet, Hyderabad 500013.

Oil Technologists' Assocn. of India, Regional Research Laboratory, Hyderabad 500009.

Panchayatiraj, Andhra Pradesh State Chamber of, 3-6-160, Hyderguda, Hyderabad 500001.

Pen-friends League, Universal, 545/3, Dabirpura, Hyderabad 500024.

Public Health Village Service, Vikarabad 501101.

Red Cross Socy., Indian, Ramgopalpet, Secunderabad 500003.

Residential Educational Insttns. Socy. (Regd.), Andhra Pradesh, 74, Srinagar Colony, Hyderabad 500038.

Road Transport, Indian Instt. of (Andhra Pradesh Branch), C/o P. Jeer, C. C. of Stores, A.P. State Road Transport Corpn., Musheerabad, Hyderabad 500020.

Sahitya Akademi, Andhra Pradesh, Kala Bhavan, Saifabad, Hyderabad 500004.

Sai Prachar Sabha, World, 6-2-941/3, Khairatabad, Hyderabad 500004.

Sangeeta Nataka Akademi, Andhra Pradesh, Kala Bhavan, Saifabad, Hyderabad 500004.

Social Welfare, Indian Council of, Red Hills, Hyderabad 500004.

St. John Ambulance Assocn., Medical Service Dte. Bldg., Sultan Bazar, Hyderabad 500001.

Telugu Academy, 3-5-895, Himayatnagar, Hyderabad 500029.

Telugu Bhasha Samithi, Opp. Engg. Coll., Osmania Univ. Campus, Hyderabad 500007.

Telugu Writers Conference, All India, 208, New Bhoiguda, Secunderabad 500003.

Theosophical Socy., Telugu Fedn., Chodavarma 531036.

Tuberculosis Assocn. of Andhra Pradesh, 3-4-760, Barkatpura, Hyderabad 500027.

Water Diviners Socy. (see Indian Socy. of Dowsers in this list).

Young India Socy., 5-8-543/1, Abid Rd., Hyderabad 500001.

Working Journalists (A.P.), Union of, Desoddharaka Bhavan, Fateh Maidan, Hyderabad 500001.

ASSAM & MEGHALAYA

COMMERCIAL

Builders' Assocn. of India, Kete Ki Bori, Tezpur 784001.

Cottage Industries Assocn., Meghalaya, C/o Ramani Mohan Kar, Jail Rd., Shillong 793002.

Entrepreneurs Assocn., Assam Young, Anuradha Bldg., Bamuni Maidan, Gauhati 781021.

Indl. Estate Assocn., Gauhati, Bamuni Maidan, Gauhati 781021.

Indl. Estate Users' Assocn., Industrial Estate, Tinsukia 786125.

Manufacturers Assocn., Assam, Gopinath Bardoloi Rd., Silpukhuri, Gauhati 781003.

Manufacturers' Organisation, All India, Udyog Nagar, Makum Rd., Tinsukia 786125.

Master Printers, North Eastern Fedn. of, Dr. J. C. Das Rd., Gauhati 781001.

Plywood Mfrs. Assocn., Assam, Parbatia Colony, Tinsukia 786125.

Paper Merchants & Stationery Mfrs.' Assocn., Assam, Seotia Bhawan, Dharamshala Rd., Gauhati 781001.

Productivity Council, Assam, Zoo Rd. (West), Gauhati 781001.

Publishers & Booksellers Assocn., Assam, C/o Barua Agency, Dighali Pukhuri Par, Gauhati 781001.

Road & Transport Devpt. Assocn., Indian, C/o Firestone Tyre & Rubber Co. of India P. Ltd., Dispur, G.S. Rd., Gauhati 781005.

Small Industries Assocn., Dhubri, Fuller Rd., Vidyapara, Dhubri 783301.

Small Industries Assocn., Meghalaya, Shillong 793001.

Small Scale Industries Assocn., North East, Ind. Estate, Jorhat 785008.

Tea Chest and Plywood Mfrs. Assocn. East India, Margherita 786181.

CULTURAL, SOCIAL AND PROFESSIONAL

Engineers (India), Insttn. of, Panbazar Overbridge East Lane, Gauhati 781001.

Medical Assocn., Indian, Assam Medical Coll., Dibrugarh 786001.

Red Cross Socy., Indian, M.C. Rd., Ujjanbazar, Gauhati 810001.

Red Cross Socy., Indian, Zoo Rd., Gauhati 781021.

Sangeet Natak Academy, Assam, Kismet, Upland Rd., Shillong 793001.

Social Welfare, Indian Council of, Raj Bhavan Rd., Shillong 793001.

BIHAR

COMMERCIAL

Agriculture Mktg. Board, Bihar State, Abhai Bhavan, Fraser Rd., Patna 800001.

Abrakh Dealers Assocn., Bihar, Jhumritelayia 825409.

Bidi Patta Byapari Sangh, Palamau, Daltonganj 822101, Palamau Dist.

Coal Merchants' Assocn., Indian, P.O. Jharia, Dhanbad 826001.

Entrepreneurs' Assocn., North Bihar Young, Kadam Kuan, Patna 800003.

Hosiery Utpadak & Vikreta Sangh, Bihar Rajya, Machharhatta, Patna 800001.

Industries Assocn., Bihar, Sinha Library Rd., Patna 800001.

Leather & Leather Goods Mfrs. Assocn., Bihar, C/o B. Pandey, Bankmen Colony, Kankarbagh, Patna 800016.

Marketing Union Ltd., Bihar State Co-op., West Lawn, Patna 800001.

Mica Industries Assocn., Giridih 815301.

Mica Mine Owners Assocn., Kodarma, Kodarma 825410.

Mica Miners & Dealers Assocn., Indian, Jhumritelayia 825409, Hazaribagh Dist.

Mosaic Tiles Mfrs. Assocn. of Bihar, C/o Mosaic Tiles Cement Products, Rd. No. 13, Rajendra Nagar, Patna 800016.

Paper Merchants' Assocn., Bihar, Yadav Bhavan, (Alam Kothi), Nayatola, Patna 800004.

Productivity Council, Patna, Fraser Rd., Patna 800001.

Silk Mill Owners Assocn., Bhagalpur 812002.

Soap Mfrs. Assocn., Bihar, Nawala Bahadur Rd., Patna 800003.

Wine Assocn., Bihar, Station Rd., Patna 800001.

CULTURAL, SOCIAL AND PROFESSIONAL

Automobile Assocn. of Eastern India, (Patna Branch), S. P. Verma Rd., Patna 800001.

Carrom Assocn., Bihar State, 509/1, Traffic Colony, Tatanagar 831002.

Chartered Accountants of India, Instt. of, N-85/7, Telco Colony, Jamshedpur 831004.

Engineers (India), Insttn. of, Luby Circular Rd., Dhanbad 826001.

Engineers (India), Insttn. of, Hardinge Rd., Patna 800001.

Industrial Supervisory Management, Instt. of, Tisco Staff Trg. Institute, Jamshedpur 831001.

Family Planning Assocn. of India, Nawal Kishore Rd., Kadamkuan, Patna 800003.

Materials Management, Indian Assocn. of, C/o Jamshedpur Productivity Council, 39/41, TISCO Guest House Annexe, Jamshedpur 831001.

Medical Assocn., Indian, IMA Bldg., Medical Assocn. Rd., Patna 800004.

Personnel Management, Indian Instt. of, 36, Tisco Guest House Annexe, Jamshedpur 831001.

Pharmaceutical Assocn., Indian, C/o Pharmacy School, Patna 800007.

Red Cross Socy. Indian, Red Cross Bhavan, North Gandhi Maidan, Patna 800001.

Social Welfare, Indian Council of, Dr. A. Besant Rd.' Patna 800004.

TB Assocn. of Bihar, Office of the D.H.S., Bihar, Patna 800015.

Teachers' Fedn. All India Secondary, 28, Legislative Colony, Patna 800001.

Theosophical Fedn., Bihar, A. Besant Rd., Patna 800004.

DELHI

COMMERCIAL

Acrylic Mfrs. Assocn., 2596, Nai Sarak, Delhi 110006.

Agricultural Assocn. of India, C/o I. C. A. R., Krishi Bhavan, New Delhi 110001.

Agricultural Machinery Assocn. of India, B-100, Defence Colony, New Delhi 110024.

Air-conditioning & Refrigeration Assocn., All India, 9A, Connaught Place, New Delhi 110001.

Automobile Assocn. of Upper India, Nahar House, 14-F, Connaught Place, New Delhi 110001.

Automobile Spare Parts Dealers Assocns., Fedn. of All India, 3620/21, Netaji Subhas Mrg., Delhi 110002.

Ayurvedic and Siddha Medicines, Fedn. of Mfrs. of, 1331, Chandni Chowk, Delhi 110006.

Biscuit Mfrs., of India, Fedn. of, 17, Alipur Rd., Delhi 110006.

Booksellers and Publishers Assocn., All India, 17-L, Connaught Circus, New Delhi 110001.

Brick and Tile Mfrs. Fedn., All India, 1-E/21, Jhandewalan Extn., New Delhi 110055.

Builders' Assocn. (Regd.), Central, 44/1, Regal Bldg., New Delhi 110001.

Builders' Assocn. of India, Sunlight Bldg., First Flr., Asaf Ali Rd., New Delhi 110001.

Cable & Conductor Mfrs. Assocn. of India, Alliance House, C-20/B, Green Park Extn., New Delhi 110016.

Cables & Conductors Mfrs. Assocn., All India Small Scale, 61/34, New Rohtak Rd., New Delhi 110005.

Chemical Importers and Dealers Assocn., 1309, Tilak Bazar, Delhi 110006.

Consumers' Co-op. Fedn. Ltd., National, 92, Nehru Place, New Delhi 110024.

Co-operative Union Ltd., Indian, 35A D. S., N. Rajindra Nagar, New Delhi 110060.

Co-operative Union of India, National, 4/2, Kirtinagar, New Delhi 110015.

Corrugated Box Mfrs. Assocn., Northern India, A-37, Phase II, Narain Indl. Area, New Delhi 110028.

Cottage Industries Assocn., Central, Janpath, New Delhi 110001.

Cottage & Small Industries, Junior Chamber of, E 49/1, Phase-II, Okhla Indl. Estate, New Delhi 110020.

Cotton Textile Mills Assocn., Northern India, Phelps Bldg., 9-A, Connaught Place, New Delhi 110001.

Dairy Assocn., Indian, IDA House, Sector IV, R. K. Puram, New Delhi 110022.

Distillers' Assocn., All India, 805, Siddharth, 96, Nehru Place, New Delhi 110024.

Electric Motors Mfrs. Assocn., C/o Ajax Electricals, 18, D.L.F. Indl. Area, New Delhi 110015.

Electrical Appliances Mfrs. Assocn., 28, Malka Ganj, Delhi 110007.

Electronic Component Industries Assocn., 26, Comm. Centre, East Kailash, New Delhi 110024.

Electronic Components Mfrs. Assocn., All India Small Scale, Phase III, 239, Okhla Indl. Estate, New Delhi 110020.

Employers, All India Orgn. of, Federation House, New Delhi 110001.

To promote & protect the indl. devpt. of India by studying various problems relating to trade, industry & labour and advising the Central & State Govts. suitably.

Employers' Fedn. of India (N. Region), Phelps Bldg., 9-A, Connaught Place, New Delhi 110001.

Engineering Assocn. of Northern India, 172, Jorbagh, New Delhi 110003.

Engineers Entrepreneurs Assocn., M-7, Kirti Nagar, New Delhi 110015.

Engineering Industry, Assocn. of Indian, 172, Jorbagh, New Delhi 110003.

Entrepreneurs, National Alliance of Young, C-20B, Green Park Extn., New Delhi 110016.

Exercise Book Mfrs. Assocns., All India Fedn. of, R-63, Greater Kailash I, New Delhi 110048.

Export Information, Instt. of, D-10 Haus Khas, New Delhi 110016.

Export Orgns., Fedn. of Indian, Allahabad Bank Bldg., 17, Parliament St., New Delhi 110001. To serve as a common forum for exporting interest in India & to render common services in respect of the activities of its constituent members.

Farmers' Assocn., Young, AI, Nizamuddin West, New Delhi 110013.

Fertiliser Assocn. of India, near J. Nehru University, New Delhi 110057.

Fertiliser Co-op. Ltd., Indian Farmers, 54 Nehru Place, New Delhi 110024. A multiunit Co-op. Society with the object of manufacturing chemical fertilisers on a large scale. The first two projects at Kandla and Kalol in Gujarat State for manufacture of NPK Urea are already in production. A further Urea Project at Phulpur in U.P. is to be commissioned in mid-1979, and a fourth plant at Surat, based on Bassein High Gas to come up in Sixth plan.

Fishery Industries, Assocn. of Indian, Punjab, Haryana & Delhi Chamber of Commerce & Industry, 9-A, Connaught Place, New Delhi 110001.

Food Preservers' Assocn., All India, 2254, Rajguru Rd., New Delhi 110055.

Foodgrain Dealers' Assocns., Fedn. of All India, 3979, Naya Bazar, Delhi 110006.

Furniture Makers Assocn., Wood, E-204, Greater Kailash, Part I, New Delhi 110048.

Galvanizers Assocn., Indian Hot Dip, 7, Shopping Centre, B-6, Safdarjung Enclave, New Delhi 110016.

Glass Mfrs.' Fedn., All India, 812, N. D. House, Barakhamba Rd., New Delhi 110001.

Handicrafts Exporters' Assocn., 32, Park Area, Karol Bagh, New Delhi110005.

Handloom Co-op. Industrial Socy. Ltd., Delhi, C94, Sudershan Park, Motinagar, New Delhi 110015.

Hosiery Knitters Assocn., Delhi, 2700, Desh Bandhu Gupta Rd., Karol Bagh, New Delhi 110005.

Hosiery Udyog Mandal, Delhi, 122-124, Model Basti, New Delhi 110005.

Hotel and Restaurant Assocns. of India, Fedns. of, 503/56, Nehru Place, New Delhi 110024.

Industrial Co-ops., National Fedn. of, 903, Vikram Tower, Rajindra Place, Pusa Rd., New Delhi 110008.

Exports & inland mktg. of co-optve. products. Import of raw materials.

Instrument Mfrs. and Dealers Assocn., All India, 26, Asaf Ali Rd., New Delhi 110002.

Iron Trunks Mfrs. Assocn., Delhi, 2604, Mohla Nyarian, G. B. Rd., Delhi 110006.

Jewellers Assocn., Delhi, 9-A, Sunder Nagar Mkt., New Delhi 110003.

Laghudyog Sangh, C/o Krishna Electrical Inds., Shidipura, New Delhi 110005.

Lead/Zinc Information Centre, Indian, 7, Shopping Centre, Block B-6, Safdarjung Enclave, New Delhi 110016.

Lime Mfrs. Assocn. of India, 10, Alipur Rd., Delhi 110054.

Machinery Merchants' Assocn., General, 76, Shraddhananda Mrg., Delhi 110006.

Manufacturers, Fedn. of Indian, 6516, Qutab Rd., New Delhi 110055.

Manufacturers Orgn., All India, Arya Bhavan, Jorbagh, New Delhi 110003.

Master Printers, All India Fedn. of, E-14, Third Flr., South Extn., Part II, New Delhi 110049.

Metal Forging Assocn., All India, 2-E/14, Jhandewalan Extn., New Delhi 110055.

Mineral Industries, Fedn. of Indian, 301, Bakshi House, 40-41, Nehru Place, New Delhi 110024.

Motion Pictures Assocn., 52/55 Mangal Mkt., Film Colony, Chandni Chowk, Delhi 110006.

Motor Unions Congress, All India, 16-A, Asaf Ali Rd., New Delhi 110001.

Musical Instruments Mfg. Co-op. Industrial Socy. Ltd., Modern, 342, Dariba Kalan, Delhi 110006.

Nylon Hosiery Mfrs. Assocn., Delhi State, 5509, Basti Harphool Singh, Sadar Thana Rd., Delhi 110006.

Oil Assocn. of India, Essential, 565, Pahar Ganj, New Delhi 110055.

Packing Box Mfrs. Assocn., C/o B. S. Sanghri, 8C/1, New Rohtak Rd., New Delhi 110005.

Paint Merchants' Assocn., Delhi, C/o Lalit & Co., Fatehpuri, Delhi 110006.

Pesticides Assocn. of India, 20, Ring Road, Lajpatnagar IV, New Delhi 110024.

Pharmaceutical Assocn., Indian, 16, Marina Arcade, Connaught Circus, New Delhi 110001.

Plastics and Rubber Instt. — Indian Section (Plastics), C/o J. N. Singh, J. Patel & Co. (Engr.) Private Ltd., 207, Surya Kiran Bldg., 19, Kasturba Gandhi Mrg., New Delhi 110001.

Plastic Inds. Assocn., Northern India, 111, Ramnagar Mkt., Qutab Rd., New Delhi 110055.

Polythene Film Mfrs. Assocn., C/o Balkishan & Co., 18, Najafgarh Rd., New Delhi 110015.

Productivity Council, Delhi, 1E/2, Jhandewalan Rd., New Delhi 110055.

Productivity Council, National, Productivity House, Lodi Rd., New Delhi 110003. NPC has nine Regnl. Directorates at Ahmedabad, Chandigarh, Bangalore, Bombay, Calcutta, Kanpur, Delhi, Gauhati & Madras.

Publishers & Booksellers Assocns. in India, Fedn. of, 4833/24, Govind Lane, Ansari Rd., New Delhi 110002.

Road Transport, Indian Instt. of (Delhi Branch), Room No. 516, Transport Bhavan, Parliament St., New Delhi 110001.

Radio & Electronics Assocn., All India, 21, Ansari Rd., Daryaganj, Delhi 110006.

Radio & Sound Equipment Mfrs.' Assocn., Small Scale, Radio Spares, Bhagirath Palace, Chandni Chowk, Delhi 110006.

Rang Rasayan Vyapar Sangh, Katra Tobacco, Tilak Bazar, Khari Baoli, Delhi 110006.

Refrigeration Trades Assocn., C/o National Refrigeration Works, 3, Netaji Subhash Mrg., Delhi 110006.

Risk Capital Foundation, 70, Janpath, New Delhi 110001. To provide soft loans to new entrepreneurs, particularly technologists & professionals towards part of promoters' contribution by way of equity capital for promoting medium sized industrial projects.

Road Transport Undertakings, Assocn. of State, Ashoka Estate, 24, Barakhamba Rd., New Delhi 110001.

Roads Congress, Indian, Jamnagar House, Mansingh Rd., New Delhi 110011.

Roads & Transport Devpt. Assocn., Indian (N. Region), Phelps Bldg., 9-A, Conn. Place, New Delhi 110001.

Roller Flour Millers' Fedn. of India, 604/605, Deep Shikha, Rajindra Place, New Delhi 110008.

Rolling Stock Export Assocn., Chander Lok Bldg., Janpath, New Delhi 110001.

Science Apparatus Dealers' Assocn., C/o [illegible] Industries, Inside Sultansingh Bldg., K. Gate, Delhi 110006.

Scientific Equipment Trade Assocn., C/o CZ Instruments (India) P. Ltd., 4/2B Jawala Mansion, Asaf Ali Rd., New Delhi 110001.

Sheep Casing Exporters' Assocn., 7231, Basti Chitanki, Qassab Pura, Sadar Bazar, Delhi 110006.

Shippers Council, All India, Federation House, New Delhi 110001.

Silicate Mfrs. Assocn., Delhi, Chemical House, 3113, Ranjit Nagar, New Delhi 110008.

Small Industries of India, Fedn. of Assocns. of, 23/B2, New Rohtak Rd., New Delhi 110005.

Soap Makers' Assocn., Delhi Small Scale, 3/70, Roopnagar, Delhi 110007.

Soyabean Processors' Assocn. of U.S.A., 349, Greater Kailash, New Delhi 110048.

Steel Furnace Assocn. of India, 3 D, Vandana, 11, Tolstoy Marg, New Delhi, 110001.

Steel Re-rollers Assocn., All India, 16/783, D. B. Gupta Rd., New Delhi 110055.

Steel Re-rolling Mills Assocn., C-50, Anand Niketan, New Delhi 110023.

Stock Exchange Assocn. Ltd., Delhi, 3 & 4/4B, Asaf Ali Road, New Delhi 110001.

Sugar Factories Ltd., National Fedn. of Co-op., Saraswati House, 27, Nehru Place, New Delhi 110024.

Sugar Mills Assocn., Indian, Sugar House, 39 Nehru, Place, New Delhi 110024.

Tea Assocn., Indian, 12/48, Malcha Mrg., New Delhi 110021.

Textile Retailers' Assocn., Delhi Provincial, Queen's Garden, Delhi 110006.

Toys & Dolls Mfrs. Assocn., 95, Swadeshi Mkt., Sadar Bazar, Delhi 110006.

Tractor Earthmoving & Construction Equipment Distributors' Assocn. Ltd., 172, Jor Bagh, New Delhi 110003.

Trunk Mfrs. Assocn., 55, Kamla Mkt., Delhi 110006.

Vegetable Oil Traders Assocn., Delhi, 73, Memwali Gali, Katra Baryan, Delhi 110006.

Wax Candle Mfrs. Assocn., Delhi, 4361/1, Gali Bhuji, Pahari Dhiraj, Delhi 110006.

Zinc Alloy Die Casting Socy., 7, Shopping Centre, Block B-6, Safdarjung Enclave, New Delhi 110016.

CULTURAL, SOCIAL AND SPORTS

Adimjati Sevak Sangh, Bharatiya, Thakkar Bappa Smarak Sadan, Dr. Ambedkar Mrg., Jhandewalan, New Delhi 110055.

Adventists Cultural Centre, 11, Hailey Rd., New Delhi 110001.

Anglo-Indian Assocn., All India, Bombay Life Bldg., Connaught Circus, New Delhi 110001.

Badminton Assocn., Delhi State, 208/5, D. B. Gupta Rd., New Delhi 110055.

Bahai's of India, National Spiritual Assembly of, 6, Canning Rd., New Delhi 110001.

Bal Bhavan Socy., Kotla Rd., New Delhi 110001.

Baptist Mission Convention in India, Lott Careys 5, Ansari Rd., Daryaganj, Delhi 110002.

Better Life, International Orgn. for, U-19, Green Park Extn., New Delhi 110016.

Blood Bank Orgn., 4, Pusa Rd., New Delhi 110005.

Boy Scouts Assocn., All India, 7, Jangpura B Extn., Mathura Rd., New Delhi 110014.

Carrom Assocn., Delhi, F-14, South Extension, Part I, New Delhi 110049.

Cattle Welfare Socy., All India, Cement Kuti, 58, Rangpura, New Delhi 110005.

Child Welfare, Delhi Council for, Qudsia Garden, Alipur Rd., Delhi 110054.

Child Welfare, Indian Council for, 4, Rouse Avenue, New Delhi 110002.

Children, Socy. for Advancement of, 17, DDA Colony, Ramjinagar, Delhi 110008.

Children's Film Socy.—India, Sapru House, New Delhi 110001.

Christian Council of India, National, N21, Greater Kailash, New Delhi 110048.

Citizen's Advice Bureau, Community Hall, E. Patel Nagar, New Delhi 110008.

Citizen's Committee, Delhi Central, 329, Faiz Rd., Delhi 110005.

Consumer Council of India, (an All India Orgn.), 27, Safdarjang Rd., New Delhi 110011. To promote, organise & assist in measures for consumer protection; to study consumer problems and evolve remedies.

Consumers' Union, Indian, Institute of Marketing & Management, 62-F, Sujan Singh Park, New Delhi 110003.

Co-operative Alliance, International, 43, Friends' Colony, New Delhi 110014.

Correctional Services, Central Bureau of, Block-1, Wing 7, Ramakrishnapuram, New Delhi 110022.

Cruelty to Animals, Socy. for the Prevention of, Qudesia Rd., Delhi 110006.

Cultural Exchange Orgn., (India), International, M-138, Aggarwal Bldg., Con. Circus, New Delhi 110001.

Cultural Forum, International, 2653, Roshanpura Amirchand Mrg., Delhi 110006.

Cultural Orgn., National, A-20/1, Lodi Rd., New Delhi 110003. An all India cultural body to promote the advancement of our language, literature and art.

Cultural Relations, Indian Council for, Azad Bhavan, Indraprastha Estate, New Delhi 110002. Regnl. offices in Bombay, Bangalore, Calcutta and Madras and cultural centres in Suva (Fiji) and Georgetown (Guyana). *Periodicals: Indian Horizons* (English quarterly), *Cultural News from India* (Illustrated quarterly digest of cultural events in the country), *Thaqafatul-Hind* (Arabic quarterly), *Papeles de la India* (Spanish quarterly); *Rencontre Avec l' Inde* (French quarterly); *ICCR Newsletter* (English quarterly for foreign students) and the *Africa Quarterly*. The Council administers the Jawaharlal Nehru Award for the promotion of peace and intnl. understanding.

Cultural Relations, World Council for, 4517, Daiwara A. Chand Mrg., Delhi 110006.

Cultural Socy., International, 4, Rajdoot Marg, Chanakyapuri, New Delhi 110001.

Culture, International Academy of Indian, J-22, Hauzkhas Enclave, New Delhi 110016.

Culture Centre, International, M-1, Kanjan Junga Bldg., Barakhamba Rd., New Delhi 110001.

Cycling Assocn., Delhi, K-8, Lajpatnagar II, New Delhi 110024.

Depressed Classes Fedn. of India, 6548, Qutab Rd., Delhi 110006.

Developing Societies, Centre for the Study of, 29, Rajpur Rd., Delhi 110006.

Drama and Asian Theatre Instt., National School of, Rabindra Bhavan, Ferozeshah Rd., New Delhi 110001.

Economic & Cultural Understanding, Asian Fedn. for, 151E, Kamal Nagar, New Delhi 110007.

Family Planning Assocn., New Delhi, F/44, N.D.S.E. Part I, New Delhi 110049.

Feroze Gandhi Memorial Socy., All India, House 19, Village Sultanpur, New Delhi 110030.

Film Societies of India, Fedn. of, Room No. 3, Northern Complex, Ramkrishna Ashram Marg, New Delhi 110001.

Fine Arts & Crafts Socy., All India, Old Mill Rd., Rafi Marg, New Delhi 110001.

Football Assocn., Delhi, 7, Kotla Rd., New Delhi 110001.

Freedom Fighters Samity, All India, 329, Faiz Rd., Karol Bagh, New Delhi 110005.

Gandhi Smarak Nidhi, Rajghat, New Delhi 110002.

Gramdans, Socy. for Developing, 223, D. D. Upadhyaya Mrg., New Delhi 110001.

Harijan Sevak Sangh, All India, Kingsway, Delhi 110009.

During 1976-77, the Sangh got opened 506 temples, 48 '[illegible]', [illegible] wells & tanks, and [illegible] hotels & restaurants. It persuaded 479 barbers and 222 washermen to serve Harijans. It conducts 87 hostels including 26 for girls, 3 Industrial Trg. Centres, 173 Co-op. Societies and 534 Ashram Schools, Creches, 'Balwadis' and 'Sanskar Kendras' and runs 331 nutrition centres for poor Harijan children.

Helpage India, Room No. T1, Mercantile Bank Ltd., 28, Kasturba Gandhi Marg, New Delhi 110001. A society to help old people.

Hockey Assocn., Delhi, Gate 7, Shivaji Stadium, New Delhi 110001.

Hostels Assocn. of India, Youth, 5, Nyaya Mrg., Chanakyapuri, New Delhi 110021.

Indo-Arab Socy., 4-A, Telegraph Lane, New Delhi 110001.

Indo-German Societies in India, Fedn. of, 1/84, Shanti Niketan, New Delhi 110021.

Indo-Iran Socy., 18, Tilak Marg, New Delhi 110001.

Indo-Palestine Solidarity Socy., 4162, Urdu Bazar, Delhi 110006.

Indo-Soviet Cultural Socy., Jamna Bhavan, Asaf Ali Rd., New Delhi 110001.

International Centre, India, 40, Lodi Estate, New Delhi 110003.

International Devpt., United States of America Agency for (AID), American Embassy, Chanakyapuri, New Delhi 110021.

Japan Information Centre, 10, K. Gandhi Marg, New Delhi 110001.

Jnanpith, Bharatiya, B-45, Con. Place, New Delhi 110001.

Kathak Kendra (Instt. of Kathak), Bahawalpur House, Bhagwan Dass Rd., New Delhi 110001.

Krishak Samaj, Bharat, A1, Nizamuddin West, New Delhi 110013.

Library Assocn., Indian, C/o Delhi Public Library, S. P. Mukherji Marg, Delhi 110006.

Mahabodhi Socy. of India, Buddha Vihara, Mandir Mrg., New Delhi 110001.

Mahila Sangh, Bharatiya Grameen (National Assocn. for Rural Women), 9/104, Jamnagar Hutments, Block II, Mansingh Rd., New Delhi 110011. (1) Intensive rural trg. programmes for women in Leadership, Family Plng., Agri., Nutrition & Child Health and Adult Edn.; (2) Regular rural welfare programme for women and children to assist in the betterment of their standard of living; (3) [illegible] edn. and [illegible] programmes with the Govt. Deptts. as partners in order to give the rural women equal participation in the national devpt. and reconstruction.,

Mayors, All India Council of, B-48, Municipal Colony, Azadpur, Delhi 110033.

Max Mueller Bhavan, Indo-German Cultural Centre, 3, K. Gandhi Mrg., New Delhi 110001.

Mentally Retarded, Fedn. for the Welfare of, C/o Mrs. Char, Model School, Lajpatnagar, New Delhi 110024.

Mountaineering Foundation, Indian, 18, Q Block, New Delhi 110011.

Music, Dance & Dramatics, Delhi Instt. of, V-13, Rajouri Garden, New Delhi 110015.

Natya Sangh, Bharatiya, 34, New Central Mkt., Connaught Circus, New Delhi 110001.

Nomadic Tribes, All India Assocn. of Servants of, Rajendra Ashram, Patpar Ganj, New Delhi 110031.

Peace Council, All India, 6, Jamuna Bhavan, Asaf Ali Rd., New Delhi 110001.

Peace & Solidarity Orgn., All India, 201, New Delhi House, 27, Barakhamba Rd., New Delhi 110001.

Penfriends, Nation's League of, 9E, Theatre Communication Bldg., Con. Circus, New Delhi 110001.

Pinjrapole Socy., Delhi, 9271, Kisanganj, Delhi 110007.

Prayer Fellowship, All India, Q3, Green Park, New Delhi 110016.

Prohibition Council, All India, 8, North End Complex, R. K. Ashram Rd., New Delhi 110001.

Ramakrishna Mission, Ramkrishna Ashram Mrg., New Delhi 110001.

Ramayana Socy., International, C/o Dr. Kelkar, Secy., Sahitya Akademi, Rabindra Bhavan, Ferozeshah Road, New Delhi 110001.

Red Cross Socy., Indian, 1, Red Cross Rd., New Delhi 110001.

Religions, World Fellowship of, 12, S. Bhagat Singh Mrg., New Delhi 110001.

Rifle Assocn. of India, National, 82, Theatre Communication Bldg., Connaught Circus, New Delhi 110001.

Rural Devpt., (AVARD), Assocn. of Voluntary Agencies for, C-6, Community Centre, Safdarjung Devpt. Area, New Delhi 110016. Performing clearing house function in respect of rural devpt.; provides help in micro-level, socio-economic plng. & execution of rural devpt. programmes in community devpt. blocks & cluster of villages; currently operating in more than a dozen project areas spread over all States in the Indian Union.

Safety Assocn., National, M-89, Greater Kailash, New Delhi 110048.

Sahitya Akademi (Natural Academy of Letters), Rabindra Bhavan, 35, Ferozeshah Rd., New Delhi 110001. The Akademi awards prizes for outstanding literary works in 22 Indian languages, including English. Journals: (1) Bi-monthly *Indian Literature* (English), (2) six-monthly *Samskrita Pratibha* (Sanskrit).

Saint Paul, Socy. of, A/449, Defence Colony, New Delhi 110024.

Sangeet Natak Akademi, Rabindra Bhavan, 35, Ferozeshah Rd., New Delhi 110001. The Akademi gives grants to organisations, promotes research, sets up trg. institutions, organises seminars, festivals and subsidizes publications on music, dance & drama. It has instituted a pilot research scheme in the acoustics of music & has undertaken an extensive programme for survey & documentation of folk arts. It runs Jawaharlal Nehru Manipur Dance Academy for trg. in Manipuri dance at Imphal and Kathak Kendra for trg. in Kathak dance in Delhi.

Sant Nirankari Mandal, Sant Nirankari Colony, Delhi 110009. To promote the feelings of Universal [illegible] & [illegible] amongst all human beings without caste, creed and colour through realisation of God & to develop equa respect for all the prophets & their holy scripts.

Scheduled Castes, Scheduled Tribes and Other Backward Classes, All India Fedn. of, 118, Than Singh Nagar, New Delhi 110005.

Scouts Assocn., All India Boy, 7, Jangpura B Extn., Mathura Rd., New Delhi 110014.

Scouts and Guides, Bharat, 16, M. Gandhi Rd., Indraprastha Estate, New Delhi 110002.

Scouts & Guides, Bharat, (Delhi State), 113A, Daryaganj, Delhi 110006.

Servants of the God, Socy. of, Yeshwant Place, Satya Mrg., Chanakyapuri, New Delhi 110021.

Servants of the People Socy., Lajpat Bhavan, Lajpat Nagar, New Delhi 110024.

Sevak Samaj, Bharat, 22, Sardar Patel Rd., Chanakyapuri, New Delhi 110021. Its activities are preprimary schools, schools for mentally retarded children, charitable dispensaries, night shelters, women craft centres, Gandhi krishi seva ashrams, leper preventoria, relief reconstruction programme, youth work camps, literacy drive, family plng., prohibition, anti-adulteration wherever necessary.

Sikhs' Fedn., All India, 13-F, Ansari Mkt., Delhi 110002.

Social Action, Church's Auxiliary for, 'Rachna', 2, Rajendra Place, Pusa Rd., New Delhi 110008.

Social & Economic Welfare Socy. of India, K1/49, Model Town, Delhi 110009.

Social Guidance, Instt. for, 2-F, Lajpat Nagar, New Delhi 110024.

Social Health in India, Assocn. for, 4, D. D. Upadhyaya Mrg., New Delhi 110002. To eradicate prostitution & other evils in relation thereto. To establish, maintain & assist Protective Homes, Health Clinics for diagnosis, treatment and mass edn. for venereal diseases control, Family Life Instts. and Student Counselling Centres. To promote understanding and edn. in respect of sex relations to raise the standard of character and encourage healthy family relations.

Social Welfare, Delhi Council for, 31, Netaji Subhas Mrg., Delhi 110006.

Social Welfare, Indian Council of, 6, Lytton Lane, New Delhi 110001.

Sports, All India Council of, C/o Ministry of Education & Social Welfare, Shastri Bhavan, New Delhi 110001.

Sports, National Instt. of, National Stadium, New Delhi 110011.

St. John Ambulance Assocn. and St. John Ambulance Brigade, 1, Red Cross Rd., New Delhi 110001. *Objects :* Imparts trg. in First Aid, Home Nursing, Hygiene & Sanitation, Mothercraft & Child Welfare.

Activities : To render first aid to persons in cases of accidents or emergencies ; Gives direct support to health services and offers relief to suffering, sick & injured people in peace & war.

Students' Fedn., All India, 4/7, Asaf Ali Rd., New Delhi 110001.

Student Union of India, National, 7, Jantar Mantar Rd., New Delhi 110001.

Swami Sivananda Cultural Assocn., Sivananda Bhavan, Amar Colony, Lajpat Nagar IV, New Delhi 110024.

Table Tennis Fedn. of India, National Stadium, New Delhi 110001.

Teachers' Welfare, National Foundation for, C/o Min. of Education & Social Welfare, Shastri Bhavan, New Delhi 110001.

Temperance Socy. of India, National, 11, Hailey Rd., New Delhi 110001.

Tennis Assocn., All India Lawn, 7/3, Asaf Ali Rd., New Delhi 110001.

Theosophical Fedn., B-605, Curzon Rd. Hostel, New Delhi 110001.

Tibetan Industrial Rehabilitation Socy., 14, Birbal Rd., Jangpur, New Delhi 110014.

United Nations Assocns., Indian Fedn. of, 12, Janpath Barracks 'A', New Delhi 110001.

University Students of India, National Council of, F13, NDSE., Part II, New Delhi 110049.

Waddar Samaj Sangh (Regd.), Akhil Bharat, 128, North Ave., New Delhi 110001.

Wild Life, Indian Board for, Deptt. of Agriculture, Krishi Bhavan, New Delhi 110001.

Women Food Council, All India, Janpath, New Delhi 110001.

Women, National Fedn. of Indian, 1002, Ansal Bhavan, 16, K. Gandhi Mrg., New Delhi 110001.

Women's Assocn., Young, C-3, Safdarjung Enclave, New Delhi 110016.

Women's Conference, All India, Sarojini House, 6, Bhagwandass Rd., New Delhi 110001. To work actively for the general progress & welfare of women & children and to help women appreciate & enjoy fundamental rights conferred on them by the Constitution of the Indian Union, etc., etc.

Women's Welfare Assocn. of India, Young, 1, Atul Grove Rd., New Delhi 110001.

World Affairs, Indian Council of, Sapru House, Barakhamba Rd., New Delhi 110001.

World Co-op. and Cultural Relations, Indian Fedn. for, 2665/2, Mandir Wali Gali, New Delhi 110008.

World Federalists, World Assocn. of, 1, Atul Grove Rd., New Delhi 110001.

YMCA's of India, National Council of, Massey Hill, Jai Singh Rd., New Delhi 110001.

Young Friends' Assocn., Delhi, 3/1, Asaf Ali Rd., New Delhi 110001.

Young Women's Christian Assocn. of India, K-13, Lajpatnagar II, New Delhi 110024.

Young Workers, Indian National Council for, 17, Janpath, New Delhi 110001.

Youth, Indian Assembly of, Viswa Yuvak Kendra, Circular Rd., New Delhi 110027.

Youth, United Nations Council of, 10, Sunder Nagar, New Delhi 110003.

Youth Assocn., United Nations, 5219, Kolhapur Rd., Delhi 110007.

Youth Centre, International, (Vishwa Yuvak Kendra), Circular Rd., Chanakyapuri, New Delhi 110021.

Youth Congress, All India Rural, 52, Basti Harphool Singh, Delhi 110006.

Youth Fedn., All India, 4/7, Asaf Ali Rd., New Delhi 110002.

Youth Welfare Socy., 11, J. H. Bldg., Chandni Chowk, Delhi 110006.

PROFESSIONAL AND MEDICAL

Accountants & Auditors of India, Socy. of Incorporated, Daryaganj, Delhi 110006.

Aeronautical Socy. of India, 13-B, Indraprastha Estate, New Delhi 110001.

Agricultural Assocn. of India, C/o Indian Council of Agricultural Research, Krishi Bhavan, New Delhi 110001.

Agricultural Engineers, Indian Socy. of, National Agro House, 2 Tansen Marg, New Delhi 110001.

Agricultural Statistics, Indian Socy. of, C/o Instt. of Agricultural Research Statistics, Library Ave., New Delhi 110012.

Agriculture & Biology, Indian Socy. for Nuclear Techniques in, Indian Agricultural Research Instt., New Delhi 110012.

Agronomy, Indian Socy. of, Indian Agricultural Research Institute, New Delhi 110012.

Arbitration, Indian Council of, Federation House, New Delhi 110001.

Architects, Instt. of Incorporated, 3, Court Lane, Court Rd., Delhi 110006.

Astronomical Assocn., Indian, 704, Military Rd., Anand Parbat, New Delhi 110005.

Author's Guild of India, C-44, Gulmohar Park, New Delhi 110049.

Ayurvedic Congress, All India, Dhanwantri Bhavan, Rd. No. 66, Punjabi Bagh, New Delhi 110026.

Bar Assocn., Supreme Court, 1, Tilak Mrg., New Delhi 110001.

Bar Assocn. of India, Chamber No. 93, Supreme Court Bldg., New Delhi 110001.

Bar Council of Delhi, High Court Bldg., New Delhi 110001.

Bar Council of India, AB-21, Mathura Rd., New Delhi 110001.

Chartered Accountants of India, Instt. of, Post Box 7100, Indraprastha Marg., New Delhi 110002.

Chartered Engineers, Insttn. of, Anand Parbat, New Delhi 110005.

Company Secretaries of India, Instt. of, A-1/111, Safdarjang Enclave, New Delhi 110016. The only body sponsored by the Deptt. of Company Affairs for the promotion and development of the profession of Company secretaries in India.

Consulting Engineers (India), Assocn. of, 14, Asaf Ali Rd., New Delhi 110001.

Consulting Engineers, National Assocn. of, C/o Secy., Assocn. of Indian Engg. Industry, 172, Jor Bagh, New Delhi 110003.

Dental Council, Delhi, 2, Battery Lane, Delhi 110006.

Dermatologists & Venereologists, Indian Assocn. of, All India Instt. of Medical Sciences, Ansari Nagar, New Delhi 110016.

Engineers (India), Insttn. of, Bahadur Shah Zafar Mrg., Near Tilak Bridge, New Delhi [illegible]

Entomological Socy. of India, Indian Agricultural Research Institute, New Delhi 110012.

Epilepsy Assocn., Indian, Ansari Rd., Daryaganj, New Delhi 110002.

Ford Foundation, The, 55, Lodi Estate, New Delhi 110003. Grants to institutions in India, Nepal & Sri Lanka for research, devpt. & trg. in agricultural & rural devpt.; edn. & social sciences; population, health & nutrition; public & international affairs & culture; plng., management, economics & international economic order.

Gastro-Enterologists, Assocn. of, All India Instt. of Medical Sciences, Ansari Nagar, New Delhi 110016.

Genetics & Plant Breeding, Indian Socy. of, Indian Agricultural Research Institute, New Delhi 110012.

Heart Foundation, All India, 4874, Ansari Rd., 24, Daryaganj, New Delhi 110002.

Hematology, Indian Socy. of, Dept. of Pathology, All India Instt. of Medical Sciences, Ansari Nagar, New Delhi 110016.

Horticultural Socy. of India, Krishi Bhavan, New Delhi 110001.

Industrial Tribology, Indian Socy. for, C/o J. P. Sharma, Mechanical Engg. Deptt., Indian Instt. of Technology, Haus Khas, New Delhi 110029.

International Law, Indian Socy. of, 7, Scindia House, New Delhi 110001.

Interpreters' Assocn., Indian Conference of, B-7/58/1, Safdarjung Enclave, New Delhi 110016.

Lalit Kala Akademi, National Academy of Art, Rabindra Bhavan, New Delhi 110001. To promote painting, sculpture, architecture & applied arts.

Landscape Architects, Indian Instt. of, 3, Court Lane, Court Rd., Delhi 110006.

Law Assocn., International, Indian Law Institute, Bhagwandas Rd., New Delhi 110001.

Law Instt., Indian, Bhagwandas Rd., New Delhi 110001.

Malaria & Other Communicable Diseases, Indian Socy. of, 22, Alipore Rd., Delhi 110006.

Management Assocn., All India, Management House, 14, Institutional Area, Lodi Rd., New Delhi 110003.

Marketing and Management, Instt. of, 62F, S. S. Park, New Delhi 110003. Membership: 1600 with Chapters at: Bombay, Madras, Calcutta, Bangalore, Faridabad, Cochin, Chandigarh & Hyderabad. Non-profit, public, national apex membership body of mktg. personnel and orgns., affiliated to the intnl. mktg. fedn. IMM provides services to its members in the fields of Research & Feasibility Trg., Management Consultancy & Publications. *Regnl. Offices:* Bharat House, 104, Bombay Samachar Mrg., Bombay 400023; C/o Bata India Ltd., 6A, S. N. Banerjee Rd., Calcutta 700013; 58-B, Burkitt Rd., T. Nagar, Madras 600017.

Material Management, Indian Assocn. of, C/o Engineering India Ltd., K-21, NDSE Part II, New Delhi 110049.

Materials-Management of India, Instt. of, D-409, Defence Colony, New Delhi 110024.

Medical Assocn., Indian, I.M.A. House, Indraprastha Marg, New Delhi 110001.

Meteorological Socy., Indian, C/o Observatory, Lodi Rd., New Delhi 110003.

Neurological Socy. of India, Dept. of Neurosurgery, All India Instt. of Medical Sciences, Ansari Nagar, New Delhi 110016.

Newspaper Editors' Conference, All India, Room 36, North End Complex, R. K. Ashram Marg, Panch Kuin Marg, New Delhi 110001.

Newspaper Employees' Fedn., All India, 29, New Central Mkt., Connaught Place, New Delhi 110001.

Newspaper Socy., Indian and Eastern, I.E.N.S. Bldg., Rafi Marg, New Delhi 110001.

Nurses' Assocn. of India, Trained, L-16, Green Park, New Delhi 110016.

Oil Technologists Assocn. of India, DCM Chemical Works, Najafgarh Rd., New Delhi 110015.

Operational Research Socy. of India, C/o C.S.I.R., Rafi Marg, New Delhi 110001.

Orthopaedic Assocn., Indian, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110016.

Otolaryngologists of India, Assocn. of, All India Instt. of Medical Sciences, Ansari Nagar, New Delhi110016.

Pathology, Indian Registry of, Deptt. of Pathology, Safdarjung Hospital, New Delhi 110003.

Phytopathological Socy., Indian, Indian Agricultural Research Institute, New Delhi 110012.

Plant Biochemical Socy., Nuclear Research Laboratory, Indian Agricultural Research Instt., New Delhi 110012.

Plant Morphologists, International Socy. of, Dept. of Botany, Univ. of Delhi, Delhi 110007.

Plant Physiology, Indian Socy. of, Botany Dn., Indian Agricultural Research Institute, New Delhi 110012.

Psycho-Physical Therapy, Yoga Instt. of, F2, Lajpatnagar, New Delhi 110024.

Rheumatic Diseases, M.M.L. Centre for, 17, Pusa Rd., New Delhi 110005.

Science Academy, Indian National, Bahadur Shah Zaffar Marg, New Delhi 110002. Promotion of scientific knowledge, co-ordination between various scientific bodies, safeguarding of the interests of scientists in India, representing internationally the scientific work of India; acting as the National Research Council of India for undertaking national & intnl. scientific work.

Science Teachers' Assocn., All India, Sardar Patel Vidyalaya, Lodi Estate, New Delhi 110003.

Scientific & Technical Literature, Indian Council for the Promotion of, 98, Mohan Singh Place, Kharak Singh Mrg., New Delhi 110001.

Secretaries of India, Socy. of Incorporated, Commercial University Ltd., Daryaganj, New Delhi 110002.

Soil Mechanics & Foundation Engineers, Indian National Socy. of, Curzon Road Barracks, New Delhi 110001.

Soil Science, Indian Socy. of, Indian Agricultural Research Institute, New Delhi 110012.

Surveyors, Inst. of, C/o Chief Engr., Delhi Zone, Delhi Cantt., New Delhi 110010.

Surveyors, National Inst. of, 24/66, W. Patel Nagar, New Delhi 110008.

TB Assocn., Delhi, Mun. TB Clinic, S. P. Mukherjee Mrg., Delhi 110006.

Teacher Educators, Indian Assocn. of, 33, Chhatra Mrg., Delhi 110007.

Teachers' Fedn., All India Secondary, K-30, Green Park, New Delhi 110016.

Teaching Profession, World Confederation of Organisations of, 16A/10, W.E.A., New Delhi 110005.

Technical Education, Indian Socy. for, IIT Campus, Hauz Khas, New Delhi 110016.

Telecommunication Engineers, Institution of, 148, Flat 2, Instt. Area, Lodi Rd., New Delhi 110003.

Town Planners, (India) Instt. of, Indraprastha Estate, M. Gandhi Mrg., New Delhi 110002.

Training & Devpt., Indian Socy. for, P.B. No. 418, Block No. 1, J. Nehru Univ. Campus, New Mehrauli Rd., New Delhi 110057.

Tuberculosis Assocn. of India, 3, Red Cross Rd., New Delhi 110001. Twenty-three State Tuberculosis Assns. are affiliated to it. It runs the New Delhi TB Centre, New Delhi and Lala Ram Sarup TB Hospital, Mehrauli (Delhi) and carries out propaganda and other activities calculated to facilitate the implementation of the Government's TB Control Programme.

Valuers, Instt. of, Anand Parbat, New Delhi 110005.

Working Journalists, Indian Fedn. of, 29, New Central Market, Connaught Circus, New Delhi 110001.

GOA

COMMERCIAL

Bakers Assocn., Goa, Feira Alta, Mapuca 403507.

Chemists & Druggists Assocn., Goa, C/o Drogaria Central, Rua Diago Couto Rd., Panaji 403001.

Hotel & Restaurant Owners Assocn., Goa, Datta Prasad, Rua Afonso de Albuquerque Rd., Panaji 403001.

Mineral Ore Exporters Assocn., Goa, Vagle Bldg., Rua Conde de Tones Novas, Panaji 403001.

Mining Assocn., Goa, Panaji 403001.

Petrol Dealers' Assocn., Post Box No. 38, Margao 403601.

Small Industries Assocn., Goa, C/o P.B. No. 80, Margao 403601.

Stevedores' Assocn., Mormugao, Neogi Mansion, Rua Francisco Luis Gomes, Vasco-da-Gama 403802.

Wines Assocn., Goa, Daman and Diu, Post Box No. 217, Panaji 403001.

CULTURAL, SOCIAL AND PROFESSIONAL

Agriculturists & Landholders Assocn., C/o Caas Lusitana, Rua Dr. Cunha Gonsalves, Panaji 403001.

Cancer Socy., Goa, Gov. Pestona Rd., Panaji 403001.

Carrom Assocn., Goa, Daman & Diu, C/o Casa Banaum, Mapuca, Bardez, Goa.

Chartered Accountants of India, Instt. of, 313, 'Govinda', 4, Albuquerque Rd., Panaji 403001.

Engineers, Assocn. of, C/o J. S. Pinto, P.W.D., Altinho, Panaji 403001.

Medical Assocn., Indian, Sneha Sadan, E/298, Dr. Shirgaonkar Rd., Panaji 403001.

Red Cross Socy., Indian, Panaji 403001.

Social Welfare, Indian Council of, Gurunath Bldg., Rua De Ourem, Panaji 403001.

TB Assocn. of Goa, Daman and Diu, Heroes de Dadra Rd., Panaji 403001.

GUJARAT

COMMERCIAL

Art Silk Cloth Mfrs. Assocn., Surat, Resham Bhavan, Lal Darwaja, Surat 395003.

Art Silk Mfrs. Exporters Co-op. Socy. Ltd., Surat (SASME), Taj Manzil, Tower Rd., Surat 395001. (*Branch* [illegible] 400002.)

Beopar Mahamandal, Bhailal Patel Rd., Valsad 396001.

Bobbin Mfg. Assocn., Gujarat State, C/o Ashok Textile Inds., Rd. No. 3, Saraspur, Ahmedabad 380018.

Booksellers Assocn., Gujarat State English Language, C/o New Order Book Co., Ellis Bridge, Ahmedabad 380006.

Booksellers & Publishers Assocn., Ahmedabad, 47, Gandhi Rd., Ahmedabad 380001.

Brass Foundry Assocn., Jamnagar, Pushpa Kunj, 49, Digvijay Plot, Jamnagar 361005.

Bricks Mfrs'. Assocn., Bhavnagar, C/o Kaushal Bricks Mfg. Co., Lokhand Bazar, Bhavnagar 364001.

Builders' Assocn., Ahmedabad, Gujarat Instt. of Civil Engrs. & Architects, Law College Rd., Ahmedabad 380006.

Button Mfrs. Assocn., All India, Juri Jail Compound, [illegible] 361001.

Chemical Assocn., Gujarat, Reid Rd., Ahmedabad 380002.

Chemical Merchants' and Mfrs. Assocn., Gujrat, 466/4, Reid Rd., Ahmedabad 380002.

Chemical Pottery and Silk Mfrs. Assocn., Ahmedabad, C/o Anil Starch Products Ltd., Anil Rd., Ahmedabad [illegible]

Cloth Market Assocn., Ahmedabad Maskati, [illegible]

Cold Storage Assocn., Gujarat, [illegible] 361001.

Confectionery Mfg. Assocn., Gujarat, [illegible]

Contractors' Assocn., Gujarat, [illegible] Hall, Law [illegible] Rd., Ellis Bridge, Ahmedabad 380006.

Co-operative Union, Gujarat State, [illegible]

Corrugated Box Mfrs. Assocn., Gujarat, [illegible]

Cotton Assocn. Ltd., West India, Cotton Hall, Manek Chowk, Ahmedabad 380001.

Cotton Dealers Assocn., Central Gujarat, Shriji Bhuvan, Sayaji Gunj, Vadodara 390005.

Cotton Dealers' Assocn., Southern Gujarat, [illegible]

Cotton, Seeds, Sugar & Grain Merchants' Assocn., Station Rd., Nadiad 387001.

Cotton Waste Merchants' Assocn., Ahmedabad, Cotton Waste Bldg., Relief Rd., Ahmedabad 380001.

Cutlery Merchants' Assocn., Ahmedabad, C/o [illegible]

Cycle Dealers Assocn., Gujarat State, Inside Panch Kuva, Ahmedabad 380001.

Dyeing & Printery Assocn., Jetpur [illegible] Rd., Jetpur 360370.

Dyestuffs Mfrs. Assocn., Gujarat, Prajapati Bldg., [illegible] Rasta, Ahmedabad 380001.

Engineering Assocn., South Gujarat, C/o Aero [illegible] 395001. .

Engineering Mfrs. Assocn., Ahmedabad, Amrit [illegible] Estate, Opp. Water Tank Dudheshwar, Ahmed 380001.

✓ **Fertiliser Co-op. Ltd., Indian Farmers,** P.O. Kasturinagar 382423. Gandhinagar Dist.

Ghee Merchants Assocn., Ahmedabad Juna Madhavpura, Juna Madhavpura, Ahmedabad 380004.

Ginning and Pressing Factories Assocn., Saurashtra, C/o Dhrangadhra House, Surendranagar 363001.

Hair Oil & Perfumery Traders Assocn., Gujarat, C/o J. B. Shah & Co., Pankaj Society, Ahmedabad 38

Hosiery Factory Owners' Assocn., Ahmedabad & Gujarat, C/o Mahboob Knitting Works, 33, Joting Sha Pir's Pole, Kalupur, Ahmedabad 380001.

Hosiery Merchants & Mfrs. Assocn., Gujarat, 1, Sabarkunj, Ashram Rd., Ahmedabad 380009.

Hotel Owners' Assocn., Ahmedabad, Mirzapur Rd., Opp. G.P.O., Ahmedabad 380001.

Industrial Co-op. Assocn. Ltd., Gujarat State, Pattharkuwa, Tilak Rd., Ahmedabad 380001.

Industries Assocn., Kandla Free Trade Zone, Free Trade Zone, Gandhidham 370201. Kutch Dist.

Isabgol Mfrs. & Exporters Assocn., Bindu Sar Rd., Sidhpur 384151.

Jaggery & Sugar Merchants Assocn., Ahmedabad, Chokha Bazar, Kalupur, Ahmedabad 380002.

Jari Goods Producers' Co-op. Socy. Ltd., Surat, Taj Manzil, Opp. Tower, Surat 395001.

Jari Mfrs. Assocn. Ltd., Surat, Salaba Momanwad, Surat 395003.

Jari Mfrs. & Merchants Assocn., Surat, Safe Dep Chambers, Bhagatalao, Surat 395001.

Manufacturers' Organisation, All India, Bh Sarabhai Literacy Instt. Bldg., Sardar V. Patel Near Khamasa Gate, Ahmedabad 380009.

Marketing Socy. Ltd., Gujarat State Co-op., Rd., Ahmedabad 380001.

Metal Exchange, Ahmedabad, C/o Kaniyalal Na Parikh, Kansara Dehla, Railwaypura, Ahmedabad 38

Metal Merchants' Assocn., Ahmedabad, Metal H Jethabhai Pole, Ahmedabad 380001.

Mill and Gin Stores Merchants' Assocn., Ahmedabad, Reid Rd., Railwaypura, Ahmedabad 38

Millboard Mfrs. Assocn., Gujarat, (Sundry Pr [illegible] Vadodara 390001.

Mill Owners Assocn., Ahmedabad, [illegible] Marg, Navrangpura, Ahmedabad 380009.

Millowners' Assocn., Saurashtra, D House, Surendranagar 363001.

Mills and Industries, Fedn. of Gujarat, [illegible] Dutt Rd., Vadodara 390005.

Mineral Industry Assocn., Gujarat, 438, [illegible] Comml. Centre No. 1, Salapose Rd., Ahmedabad

Mosaic Tiles Mfg. Assocn., Morvi, C/o Navyug T Works, Lati Rd. No. 3, Morvi 363641.

Oil Merchants' Assocn., Chokha Bazar, Kalupur, Ahmedabad 380002.

Oil Mills Assocn., Saurashtra, Manmohan Mkt., Jamnagar 361001.

Optical Mfrs. Assocn. Fedn., Gujarat, Nagar Chashmaghar, Relief Rd., Gheo Tanka Crossing, Ahmedabad 380001.

Paints & Allied Industries Assocn., Gujarat, C/o Vellian Paints P. Ltd., Madhubhai Mill Compound, Ahmedabad 380018.

Paper Merchants' Assocn., Ahmedabad, Kalyan Paper Mart, Nava Darwaja Rd., Khadia, Ahmedabad 380001.

Pest Control Assocn. of India, Ajanta Commercial Centre, Ashram Rd., Ahmedabad 380014.

Pharmaceutical Assocn., Indian, L.M. College of Pharmacy, Ahmedabad 380009.

Pharmaceutical Mfg. Assocn., 11/6, Nima Bldg., Gopal Chowk, Bhairavnath Rd., Maninagar, Ahmedabad 380009.

Picker & Textile Leather Mfg. Assocn., All India, P. Box 156, Ahmedabad 380001.

Piecegoods Merchants' Assocn., Ashapura Rd., Jamnagar 361001.

Pipe Traders' Assocn., Gujarat, Lokhand Mahajan Bldg., Nava Darwaja Rd., Ahmedabad 380001.

Plastic Mfrs. Assocn., Gujarat State, 62, Embassy, Market, Behind Income-tax Office, Ahmedabad 380009.

Plastics and Rubber Instt. — Indian Section (Plastics), C/o H. C. Broker, Hemant Brothers, Super Mkt., Ashram Rd., Ahmedabad 380009.

Precious Stone Exporters' Assocn., Vasda Vad, Jawahar Rd., Cambay 388620.

Printers Co-op. Socy., Surat Commercial, C/o New Noble Printers, Chakkapir Gali, Surat 395003.

Printing Press Assocn., Ahmedabad, New City Printing Press, Dhalgarwad, Ahmedabad 380001.

Productivity Council, Ahmedabad, 74/11, Jagabhai Park, Ahmedabad 380002.

Productivity Council, National, No. 3, Brahmin Mitra Mandal Society, Sheth Mangaldas Rd., Ellis Bridge, Ahmedabad 380006.

Readymade Cloth Dealers Assocn., Ahmedabad, C/o Dilip Kumar & Co., Rani's Hajira, Manekchowk, Ahmedabad 380001.

Re-Rolling Mills Assocn., Gujarat, B, Ajanta Commercial Centre, Ashram Rd., Ahmedabad 380009.

Roads & Transport Devpt. Assocn., Indian, Hindustan Petroleum Corpn. Ltd., Karaka Bldg., Navrangpura, Ahmedabad 380009.

Roofing Tiles Mfrs. Assocn., Morbi, Opp. State Bank, Morbi 363641.

Salt Mfrs. Assocn., Dhrangadhra, Post Office Rd., Dhrangadhra 363310.

Salt Mfrs. Assocn., Kutch Saurashtra, D-10/11, Manmohan Mkt., Jamnagar 361001.

Sanitaryware Merchants' Assocn., Ahmedabad, Prajapati Bldg., Khadia Char Rasta, Ahmedabad 380001.

Scientific, Surgical & Chemical Assocn., Gujarat, Noor Estate, Biscuit Gali, Pankore Naka, Ahmedabad 380001.

Share & Stock Brokers Assocn., Ahmedabad, Manekchowk, Ahmedabad 380001.

Shroffs Assocn., Ahmedabad, 2277/3, Manek Chowk, Opp. Share Bazar, Ahmedabad 380001.

Silicate Mfrs.' Assocn., Gujarat, 13, Pratima Society, Opp. Pharmacy Coll., Navrangpura, Ahmedabad 380002.

Small Industries Fedn., Gujarat State, Near Gun House, Khanpur, Ahmedabad 380001.

Small Scale Industries, Fedn. of, Dadasaheb Haveli, Mandvi, Vadodara 390006.

Snuff Merchants' Assocn., Ahmedabad, C/o J. G. Popatia & Sons, Doshiwada's Pole Naka, Ahmedabad 380001.

Soap Makers' Assocn., Gujarat, C/o Shree Krishna Industries, Pratapnagar Rd., Vadodara 390004.

Spun Pipe Mfrs.' Assocn., Gujarat, C/o Vikas Spun Pipe Udyog, Munshi's Khancho, Raipur, Ahmedabad 380001.

Steamship Agents Assocn., Kandla Port, C/o BBZ-S-24, P.B. No. 28, Gandhidham 370201, Kutch Dist.

Steel Re-rollers Assocn., Indian, Kumbharwada, Bhavnagar 364001.

Synthetic Stones Jewellers' Assocn., Cambay, C/o Raj Jewels, Rajkusum, Pirajpur, Khambhat 388620, Kaira Dist.

Textile Assocn. (India), Dinesh Hall Compound, Navrangpura, Ahmedabad 380009.

Textile Processors' Assocn., Gujarat, Rupam Cinema Relief Rd., Ahmedabad 380001.

Textile Rings Mfrs. Assocn., Gujarat, C/o Oriental Tin Factory, Kalidas Mill Compound, Gomtipur Rd., Ahmedabad 380021.

Tiles Mfrs. Assocn., Ahmedabad, C/o Shree Tiles & Marble Co., Khadia Char Rasta, Ahmedabad 380001.

Tobacco Merchants' Assocn., Kaira Dist., Tundel Rd., Nadiad 387001.

Trimming & Lace Factories Assocn., Ahmedabad, 164, Swaminarayan Godown, Outside Dariapur Gate, Ahmedabad 380001.

Vepari Mahamandal, Gujarat, Ranchodlal Marg, P.B. No. 162, Ahmedabad 380009.

Weavers' Co-op. Producers' Socy. Ltd., Surat, Salabatpura, Dariawad, Surat 395002.

Weaving Assocn., Surat, Limda Chowk, Lokhandwala Bldg., Mahatma Gandhi Rd., Surat 395001.

Wool Merchants Assocn., Gujarat, Post Box No. 122, Jamnagar 361001.

Yarn Merchants' Assocn., Surat, 10/265, Gandhi Chowk, Taswala St., Surat 395001.

CULTURAL, SOCIAL AND PROFESSIONAL

Architects, Gujarat Instt. of Civil Engineers &, Law College Rd., Ahmedabad 380006.

Anaesthetists, Indian Socy. of, Anaesthesiology Deptt., MPS Hospital, Asarwa, Ahmedabad 380016.

Aquatic Assocn., Gujarat State, 3552, Shahpur, Ahmedabad 380001.

Bharat Scouts & Guides, Gujarat State, Lal Darwaja, Ahmedabad 380001.

Bhuvaneshwari Pith, Shri, Gondal 360311.

Carrom Assocn., Gujarat, C/o Reshamwala Rayons (Surat) Pvt. Ltd., Surat 395003.

Carrom Assocn., Saurashtra, M-109, Housing Board Flats, Opp. Mahila College Compd., Rajkot 360001.

Chartered Accountants' Assocn., B-1, Capital Commercial Centre, Ashram Rd., Ahmedabad 380009.

Chartered Accountants of India, Instt. of, Opp. Sarav Restaurant, Lal Darwaja, Ahmedabad 380001.

Citizen's Council, Baroda, Health Museum, Sayaji Baug, Vadodara 390005.

Civil Engineers and Architects, Gujarat Instt. of, Law College Rd., Ahmedabad 380006.

Cricket Assocn., Gujarat, Bhadra, Ahmedabad 380001.

Darpana Academy, 'Chidambaram', Usmanpura, Ahmedabad 380013.

Engineers (India), Insttn. of, Law College Rd., Ahmedabad 380005.

Family Planning Assocn., Gujarat State, Krishnabag, Ahmedabad 380008.

Fisheries Central Co-op. Assocn., Ltd., Gujarat, Ramol Rd., Ahmedabad 380008.

Indo-American Socy., Khamasa Gate, Ahmedabad 380001.

Indo-German Cultural Centre, 8, Ghosha Socy., Ahmedabad 380009.

Indo-Soviet Cultural Socy., Mehboobbaug, Ahmedabad 380004.

Jeevan Bharati, Greenlands, Nanpura, Surat 395001.

Management Assocn., Ahmedabad, Bank of India Bldg., Bhadra, Ahmedabad 380001.

Materials Management, Indian Assocn. of, C/o SLM Maneklal Ind. Ltd., Ahmedabad 382415.

Medical Assocn., Indian, Near Natraj Cinema, Ashram Rd., Ahmedabad 380009.

Medical Council, Gujarat, A-2, New Civil Hospital, Ahmedabad 380016.

Medical Socy., Ahmedabad, Opp. H. K. Arts Coll., Ashram Rd., Ahmedabad 380009.

Moral & Social Hygiene, Assocn. for, J. P. Bldg., Bhadra, Ahmedabad 380001.

Nursing Council, Gujarat, New Civil Hospital, Ahmedabad 380016.

Pharmacy Council, Gujarat State, 15, Shrimali Socy., Ahmedabad 380009.

Red Cross Socy., Indian, Himavan Samaj Kalyan Kendra, Pritamrai Marg, Paldi, Ahmedabad 380002.

Rifle Assocn. of India, National, Khanpur, Ahmedabad 380001.

Sadhu Samaj, Bharat, Jagdish Mandir, Ahmedabad 380022.

Sales Tax Practitioners' Assocn., New Super Mkt., Jamnagar 361001.

Sarvodaya Mandal, Gujarat, Lal Darwaja, Ahmedabad 380001.

Seva Sangh, Kapadwanj 387620.

Sharada Peeth, Dwarka 361335. Pontifical seat established for spiritual and cultural guidance & uplift in W. India, by the first Jagadguru Shankaracharya.

Social Welfare, Indian Council of, Municipal Bal Bhavan, Near Paldi Bus Stand, Ahmedabad 380007.

TB Assocn., Gujarat State, Himavan Samaj Kalyan Kendra, Shantikunj Society, Ellis Bridge, Ahmedabad 380006.

Textile Labour Assocn., P. B. No. 110, Bhadra, Ahmedabad 380001.

Theatre Owners' & Exhibitors' Assocn., Gujarat, Rupam Cinema, Tilak Rd., Ahmedabad 380001.

Theosophical Fedn., Gujarat, C/o Miss Vira Dastur, Parsi Sanatorium, Navrangpura, Ahmedabad 380009.

HARYANA

COMMERCIAL

✓**Agro Industries Assocn.,** C/o Hari Industries, Plot No. 40, Sector IV, Faridabad 121001.

Metal Fabricators Assocn., 0/6, Industrial Area, Bahadurgarh 124507.

Metal Industries Assocn., (Regd.), Small Scale, Jagadhri 135003.

Metal Mfrs. Assocn., Haryana, 77, Srinagar Colony, Jagadhri 135003.

Potteries Mfrs. Assocn., C/o Deepak Industries, Daulatabad Rd., Gurgaon 122001.

Powerloom Owners Assocn., Faridabad, Faridabad New Indl. Town, Faridabad 121001.

Printers, Fedn. of, Jugal Printing Press, Ambala City 134003.

Printers' Assocn., Haryana, C/o M. L. Manchanda & Co., 58-A, Industrial Area, Faridabad 121001.

Productivity Council, Faridabad, 32-C, Nehru Ground, N.I.T., Faridabad 121001.

Publishers & Booksellers Assocn., Haryana, Pokhar Das Bldg., Ambala Cantt. 133001.

Scientific Instruments Mfrs. and Dealers' Assocn. Hargolal Rd., Ambala Cantt. 133001.

Textile Mfrs. Assocn., Haryana, 13-T, Industrial Area, Panipat 132103.

CULTURAL, SOCIAL AND PROFESSIONAL

Family Planning Assocn. of India, (Haryana Branch), Kothi No. 650, Sector 16/D, Chandigarh 160017.

Medical Assocn., Indian, Haryana Nursing Home, 218-L, Model Town, Karnal 132001.

Red Cross Socy., Indian, Haryana State Branch, Sector 16-A, Chandigarh 160017.

Social Welfare, Indian Council of, 45, Model Town, Hissar 125001.

TB Assocn. of Haryana, 37, Madhya Marg, Chandigarh 160017.

HIMACHAL PRADESH

COMMERCIAL

Packing Industries Assocn., Himachal Pradesh, Chambaghat, Solan 173212.

Publishers & Booksellers Assocn., Himachal, Chatrath Niwas, Palampur 176061.

CULTURAL, SOCIAL AND PROFESSIONAL

Medical Assocn., Indian, Health Deptt., Municipal Corpn., Simla 171001.

Red Cross Socy., Indian, Himachal Pradesh Sectt., Ellerslie, Simla 171002.

Social Welfare, Indian Council of, Daulat Niwas, Rajgarh Rd., Solan 173212.

TB Assocn. of Himachal Pradesh, Kennedy House, Simla 171004.

JAMMU & KASHMIR

COMMERCIAL

Beopar Mandal, Sri Runbir Gunj, Srinagar 190001.

Hotel & Restaurant Owners' Assocn., Srinagar 190001.

Industries Assocn., Jammu, C/o Thimpor P. Ltd., Jammu Tawi 180001.

Productivity Council, J. & K., C/o J. & K. Minerals Ltd., The Bund, Srinagar 190001.

Small Scale Conductor Mfrs. Assocn., J. & K., 42, Industrial Estate, Jammu 180003.

Govt. Trade Offices

Trade Agent, Manekji Wadia Bldg., 129, M. Gandhi Rd., Bombay 400023. *Resident Commission,* 5, Prithviraj Rd., New Delhi 110011.

CULTURAL, SOCIAL AND PROFESSIONAL

Engineers (India), Insttn. of, Near Amarsingh Club, Sonwarbagh, Srinagar 190001.

Engineers (India), Insttn. of, Gandhinagar, Jammu 180001.

Red Cross Socy., Indian, Exchange Rd., Srinagar 190001.

TB Assocn. of Jammu & Kashmir, Mun. Health Centre, Karan Nagar, Srinagar 190001.

KARNATAKA

COMMERCIAL

Agarbathi Mfrs. Co-op. Socy. Ltd., Mysore State, Chamber of Commerce Bldg., Kempegowda Rd., Bangalore 560009.

Agricultural Produce Co-op. Mktg. Socy. Ltd., Mangalore, Bunder, Mangalore 575001.

Agriculture, Indian Chamber of, 517, Rajamahal Vilas Extn., Palace Upper Orchards, Bangalore 560006.

Arecanut Mandy Merchants Assocn., Shimoga, Dr. S. P. Mukherjee Rd., Shimoga 577201.

Automobile Dealers' Assocn., Mysore State, Sundaram Motors Bldg., 2-2A, Kasturba Rd., Bangalore 560001.

Automobile Parts and Allied Merchants' Assocn., Mysore, 17, Ramakrishna Bldg., Narasimharaja Rd., Bangalore 560002.

Beedi Industry Assocn., Karnatak, C/o P. V. S. Beedies (P.) Ltd., Kudmul Ranga Rao Rd., Kodialbail, Mangalore 575003.

Builders' Assocn. of India, 168, South Cross Rd., Basvangudi, Bangalore 560004.

Cardamom Co-op. Marketing Socy. Ltd., Coorg, Mercara 571201.

Cardamom Growers' Assocn., Mysore, Saklespur 573134, Hassan Dist.

Cardamom Planters' Assocn., Coorg, Virajpet 571218, Coorg Dist.

Cashew Mfrs. Assocn., Mangalore, Port Rd., Mangalore 575001.

Coconut Merchants' Assocn., 33, Sethu Rao St., Bangalore 560002.

Coffee Curers Assocn., All India, Plantors Coffee Curing Works (P.) Ltd., Chickmagalur 577101.

Coffee & Produce Merchants' Assocn., Mangalore, 165, Nireshwallya Rd., Bunder, Mangalore 575001.

Co-operative Union Ltd., Karnataka State, 32, Race Course Rd., Bangalore 560001.

Cotton Handloom Weavers Co-op. Socy. Ltd., Mysore State, 18, Modal House St., Bangalore 560004.

Dairymen's Assocn., Mysore, 14, Hospital Rd., Bangalore 560002.

Employers' Assocn., Mysore State, 135, Upstairs, Surveyor's St., Basavangudi, Bangalore 560004.

Engineering Industry, Assocn. of, No. 4, L Block, Unity Bldgs., N. R. Square, Bangalore 560002.

Fertiliser Co-op. Ltd., Indian Farmers, 73, 5th Block, Jayanagar, Bangalore 560011.

Fish Fedn. Ltd., S. Kanara Dist. Co-op., Holge Bazar, Mangalore 575001.

Fish Mktg. Union Ltd., N. Kanara Dist. Co-op., Karwar 581301.

Flat Tape Mfrs. Assocn., All India, C/o Arkon Pvt. Ltd., Block 3, M. S. Ramaiah Indl. Estate, Gokula Post, Bangalore 560054.

Fruit Commission Agents Assocn., Bangalore, 9, Gundopanth St., Bangalore 560053.

Garments Mfrs. Assocn., Mysore State, C/o Lalitha Dress Mfg. Co., 64, S. J. Park Rd., Bangalore 560002.

Gold Thread Merchants' Assocn., Bangalore, 39, Jumma Masjid Rd., Bangalore 560002.

Grapegrowers Mktg. & Processing Co-op. Socy. Ltd., Bangalore, L. B. Rd., Bangalore 560027.

Gunny Merchants' Assocn., Bangalore, 88, First Flr., 3rd Main Rd., New Tharagupet, Bangalore 560002.

Handloom Cloth Merchants' Assocn., 688, Benna Govindappa Lane, Chickpet, Bangalore 560002.

Handloom Weavers P. & S. Assocn., Mysore, 1059, K. T. St., Mandi Mohalla, Mysore 570001.

Hides & Skins Merchants' & Tanners Assocn., Mysore State, 74, Commercial St., Bangalore 560001.

Hotels' Assocn., Bangalore, Shivaji Bldg., 264, Mysore Rd., Bangalore 560018.

Hotel Owners' Assocn., Indra Bhavan Bldg., Dhanvanthri Rd., Mysore 570001.

Industrial Trade Centre, Visveswaraya, Kasturba Rd., Bangalore 560001.

Objectives : To display the various industrial products manufactured in the State and to act as a catalyst in mktg. the same and to maintain close liaison with research organs. & insttns. in the country.

Iron & Steel Industrial Co-op. Socy. Ltd., 6/7, Industrial Town, Rajajinagar, Bangalore 560010.

Jewellers' Assocn., 213, Nagarthpet, Bangalore 560002.

Krishik Samaj (Farmers' Forum), Karnataka Pradesh, Nrupathunga Rd., Bangalore 560002.

Lorry Owners' Assocn., Karnataka State, Raja Mansion, Kalasipalayam, Bangalore 560002.

Manufacturers' Orgn., All India, Visvesvaraya Health Museum Bldg., Kasturba Rd., Bangalore 560001.

Marketing Fedn. Ltd., Karnataka State Co-op., 8, Cunningham Rd., Bangalore 560036.

Master Printers Assocn., South Kanara Distt., Vishwa Bharath Press, 13 393, Felix Pai Bazar, Mangalore 575001.

Match Splints & Vereers Mfrs. Assocn., Mysore, 1535/1, Opp. Vanivilas Mkt., Mysore 570004.

Mine Owners' Assocn., Mysore State, 5, Railway Station Rd., Vasanthanagar East, Bangalore 560052.

Mineral Producers' Co-op. Union Ltd., Mysore State, 2nd Cross, Gandhinagar, Bangalore 560009.

Moneylenders & Pawn Brokers' Assocn., Bangalore, 83, D. S. Lane, Chickpet Cross, Bangalore 560053.

Oil Industry Assocn., All India Non-Edible, Doorvaninagar, Bangalore 560016.

Oilseeds Processing Socy. Ltd., Farmers Co-op., Binkadakatti, Post Box 67, Gadag 582101.

Oodabathi Mfrs.' Assocn., Mysore, Karnataka Chamber Bldg., Kempegowda Rd., Bangalore 560009.

Orange Growers Co-op. Socy. Ltd., Coorg, 14, S. Rao St., Bangalore 560053.

Paper Merchants & Stationers Assocn., Karnataka, 7, Uttradhi Mutt Lane, Chickpet, Bangalore 560053.

Pharmaceutical Assocn., Indian, 55, S.S.I. Area, 5th Block, Rajajinagar, Bangalore 560010.

Plastic Mfrs. Assocn., Karnataka, C/o Dr. I. Sanghi, 400, N 1st Block, Rajajinagar, Bangalore 560010.

Planters' Assocn., Coorg, Post Box 15, Mercara 571201.

Planters' Assocn., Karnataka State, Post Box 18, Chikmagalur 577101.

Potato & Onion Merchants Assocn., Bangalore, 12, Shivaganga Mutt Rd., Chamarajapet, Bangalore 560018.

Poultry Farmers Assocn., Mysore, Platform Rd., Bangalore 560023.

Poultry Farmers Co-op. Socy. Ltd., Mysore Taluka, Dhanvanthari Rd., Mysore 570001.

Powerloom Cotton Cloth Mfrs. Co-op. Socy. Ltd., Devatha Mkt., Bangalore 560053.

Powerloom Silk Mfrs. Co-op. Socy. Ltd., Bangalore Small Scale, 10th Cross, Cubbonpet, Bangalore 560002.

Printers' Assocn., Karnataka, Avenue Rd., Bangalore 560002.

Productivity Council, Mysore State, 10, Race Course Rd., Bangalore 560001.

Productivity Council, National, 16, Rest House Crescent, Bangalore 560001.

Publishers & Booksellers' Assocn., Karnataka, 504, Avenue Rd., Bangalore 560002.

Quarry Owners' Assocn., Belgaum, 1558, Maruti St., Belgaum 590002.

Roads & Transport Devpt. Assocn., Indian, Karnataka State Sub-Regnl. Office, C/o Dunlop India Ltd., 17, Raj Bhavan Rd., Bangalore 560001.

Road Transport Assocn., Mysore State, B. G. S. Rajas Mansions, II Main Rd., Kalasipalayam New Extn., Bangalore 560002.

Seeds Mktg. Co-op. Fedn. Ltd., Karnataka, 75, Millers Rd., Bangalore 560052.

Silk Cloth Merchants' Assocn. (Wholesale), Mysore, Shivakrupa Bldg., Chowdeswari Temple St., Bangalore 560002.

Silk Marketing Co-op. Socy. Ltd., Karnataka State, 103, Avenue Rd., Bangalore 560002.

Silk Handloom Weavers' Assocn., Mysore, 13, J. Masjid Rd., Bangalore 560002.

Silk Handloom Weavers Central Co-op. Socy. Ltd., Karnataka State, Shantinagar, Bangalore 560027.

Silk Mfrs. (Powerlooms) Assocn., Mysore, 39, J. Masjid Rd., Bangalore 560002.

Silk Merchants' Assocn., Mysore Raw, Resham Mahal, Kempegowda Rd., Bangalore 560009.

Small Scale Industries Assocn., Karnataka, 11-A, Jayachamarajendra Rd., Bangalore 560002.

Small Scale Sector, Assocn. of, 360, IInd Flr., Avenue Rd., Bangalore 560002.

Soap Mfrs. Assocn., Mysore State, Shankarmutt Compound, Bangalore 560004.

Stock Exchange Ltd., Bangalore, Kempegowda Rd., Bangalore 560009.

Sugar Factories Fedn. Ltd., Karnataka State Co-op., 37, Nehru Circle, Bangalore 560020.

Sugar Mfrs. Assocn., Karnataka Khandsari, Amrit, Upper Pipeline Cross, Seshadripuram, Bangalore 560020.

Sugar Mills Assocn., S. Indian, Mysugar Bldgs., Sri Jayachamaraja Wadiyar Rd., Bangalore 560002.

Textile Assocn. (India) (Regd.), Karnataka Branch, C/o G. S. K. S. J. Technological Instt., K. R. Circles, Bangalore 560001.

Textile Mills Assocn., Karnataka, Post Box 201, Davangere 577002.

Tile Mfrs.' Assocn., W. India, Maidan West Rd., Mangalore 575001.

Tourist & Transport Socy. Ltd., Co-op., 48, J. C. Rd., Bangalore 560002.

Transport Operators' Assocn., 19, J. Extn., Bangalore 560006.

Village Industries Assocn., S. Kanara, Car St., Mangalore 575001.

Wine Merchants' Assocn., Bangalore, 111, Brigade Rd., Bangalore 560001.

Woollen Handloom Weavers Co-op. Socy. Ltd., Karnataka State, 147, Infantry Rd., Bangalore 560001.

CULTURAL, SOCIAL AND PROFESSIONAL

Amateur Athletic Assocn., South Kanara, Dwaraka, Arya Samaj Cross Rd., Mangalore 755003.

Anatomical Socy. of India, Dept. of Anatomy, St. John's Medical College, Sarjapur Rd., Bangalore 560034.

Animals, Bangalore Socy. for the Prevention of Cruelty to, Kasturba Rd., Bangalore 560001.

Ayurvedic & Unani Practitioners Board, Karnataka, Govt. Central Pharmacy Bldg., 1st Block, J. Nagar, Bangalore 560011.

Bar Assocn., Bangalore, High Court Bldg., Bangalore 560001.

Billiards Assocn., Karnataka State, 5-D, Brigade Rd., Bangalore 560025.

Biological Chemists (India), Socy. of, Indian Institute of Science, Bangalore 560012.

Birdwatchers Club of India, P.O. Dodda Gubbi Via Vidyanagar, Bangalore 562134.

Bodybuilders Assocn., Karnataka Amateur, 27, 2nd Block, Rajajinagar, Bangalore 560010.

Carrom Assocn., Mysore State, E-80, 27th Cross, Huriopet, R. Temple St., Bangalore 560002.

Chartered Accountants of India, Instt. of, 1B, First Block, Rajajinagar, Bangalore 560010.

Child Welfare, Karnataka State Council for, 135, 3rd Cross, Nandidurga Rd., Bangalore 560006.

Corporate Secretaries, Instt. of, 29, 1st Main, Fifth Block, Kumara Park West, Bangalore 560020. Professional orgn. of company secretaries & allied personnel.

Cricket Assocn., Karnataka State, Cricket Stadium, M. Gandhi Rd., Bangalore 560001.

Dental Assocn., Indian, 45, Linden St., Austin Town, Bangalore 560007.

Electrical Engineers, Insttn. of, 7, Nandidurga Rd., Bangalore 560006.

Electrochemical Socy. of India, Indian Instt. of Science, Bangalore 560012.

Electronic Engineers, Socy. of, P.O. Box 5108, High Grounds, Bangalore 560001.

Electronics & Radio Engineers, Instn. of, 54, Nandidurg Rd., Bangalore 560046.

Engineers (India), Insttn. of, 3, Vidhana Veedhi, Bangalore 560001.

Evangelical Missionary Socy., Basel Mission, Mangalore 575002.

Ex-Servicemen's Rehabilitation Assocn., Madras Sapper, Old Madras Rd., P. B. No. 877, Ulsoor, Bangalore 560008.

Family Planning Assocn. of India, 50, New Mission Rd., Bangalore 560027.

Film Chamber of Commerce, Karnataka, 25, Seshadri Rd., Bangalore 560009.

Film Guild, Kannada, 517, Rajamahal Vilas Extn., Sadasivanagar, Bangalore 560006.

Fine Arts, Sri Varalakshmi Academies of, Ram Vilas, Kashipathy Agraharam, Chamaraja Rd., Mysore 570004.

Food Scientist & Technologists, Assocn. of, Central Food Technological Research Instt., Cheluvamba Mansion, Mysore 570013.

Football Assocn. Karnataka State, 53, Jewellers' St., Bangalore 560001.

Free Enterprise, Forum of, 91, Dr. D. V. Gundappa Rd., Basavangudi, Bangalore 560004.

Gana Kala Parishat, Karnataka, 7, Kanakapura Rd., Bangalore 560004.

Geological Socy. of India, 102, Bull Temple Rd., Bangalore 560019.

Gram Seva Sangh, Karnataka, Timmapurpet, Raichur 584101.

Holy Childhood Pontifical Socy., Palmgrove Rd., Bangalore 560007.

Horticultural Socy. Mysore, Lalbagh, Bangalore 560004.

Indo-German Cultural Socy., Max Muller Bhavan, 12, Museum Rd., Bangalore 560001.

Indo-Soviet Cultural Socy. 28, 1st Main V Block, Kumara Park W. Extn., Bangalore 560020.

Internal Auditors, Instt. of, S.S.P. Mutt Trust Bldg., 2nd Flr., Tank Bund Rd., Bangalore 560009.

Lalithakala Academy, Mysore State, Ravindra Kalakshetra, Bangalore 560002.

Materials Management, Indian Assocn. of, C/o International Instruments Pvt. Ltd., 140, Hosur Rd., Bangalore 560034.

Medical Assocn. Indian, I.M.A. House, Alur Venkat Rao Rd., Bangalore 560018.

Meditation Centre, Sri Shankara, 14, Cambridge Rd., Someshwarapuram, Ulsoor, Bangalore 560008.

Mineralogical Socy. of India, Mansa Gangotri, Mysore 570006.

Mythic Socy., Daly Memorial Hall, Nrupathunga Rd., Bangalore 560001.

Olympic Assocn., Karnataka State, E-1, Staff Qrs., St. John Medical College Campus, John Nagar, Bangalore 560034.

Photography, Fedn. of Indian, 50, Sri Ram Mandir Rd., Bangalore 560004.

Popular Assocn. Bangalore, 71, Hospital Rd., Bangalore 560053.

Production Engineers, Insttn. of, C/o Wing Cdr. G. Venkateshwaran, 15, Eagle St., Langford Town, Bangalore 560026.

Public Utility Service Assocn., All India, HAL Police Qtrs., Marathahalli, Bangalore 560017.

Red Cross Socy. Indian, 51, III Cross Rd., Basavangudi, Bangalore 560004.

Sahitya Academy, Mysore State, Ravindrakala Kshetra, Bangalore 560002.

Sahitya Parishad, Kannada, Hardinge Rd., Chamarajpet, Bangalore 560018.

Sai Spiritual Centre, Sri, Saibaba Mandir Rd., Bangalore 560028.

Salesian Assocn., S. Indian, Sannathammanahalli, Bangalore 560016.

Sangeetha Nataka Academy, Mysore State, Ravindra Kalakshetra, Bangalore 560002.

Sciences, Indian Academy of, P.O. Hebbal, Bangalore 560006.

Secretaries, Instt. of Corporate, (see under Corp. Secretaries in this list).

Seventh Day Adventists, South India Union of, 8, Spencer Rd., Bangalore 560005.

Skills for Progress (SKIP) — (All India Assocn. of Private Technical & Vocation Instts.), 72, Brigade Rd., Bangalore 560025.

Social Welfare, Indian Council of, 22/3, Rest House Rd., Bangalore 560001.

Sports Council, Karnataka State, Sri Kanteerva Stadium, Bangalore 560001.

Tamil Sangam, Bangalore, 29/1, Annaswamy Mudir Rd., Bangalore 560042.

Telecommunication Engineers, Instt. of, 36, 2nd Main Vyalikaval, Bangalore 560003.

Theosophical Socy., Krishnarajendra Rd., Bangalore 560004.

Tuberculosis Assocn., Karnataka State, 3, Union St., Bangalore 560001.

United Nations Assocn., Karnataka, 10, Sirur Park, 'B' St., Seshadripuram, Bangalore 560020.

Vanita Seva Samaj, Puranik Rd., Dharwar 580001.

Waddar Samaj Sangh (Regd.), Akhil Bharat, 62, Fort B. St., Bangalore 560002.

Weightlifters Assocn., Karnataka State, 1042, 2nd Cross, Sreerampuram, Bangalore 560021.

Working Journalists, Karnataka Union of, Dt. Office Compound, K. G. Rd., Bangalore 560009.

Youth for Christ, Bangalore, 102, Infantry Rd., Bangalore 560001.

KERALA

COMMERCIAL

Arecanut Co-op. Mktg. Socy. Ltd., Tirur Taluka, Talakadathur, Tirur 676102.

Builders' Assocn. of India, C/o P. K. Ramachandra, Damodar Sons & Co., M. G. Rd., Ernakulam, Cochin 682016.

Cardamom Growers' Union, Munnar 685612 (Kottayam Dist.).

Cardamom Krishi Samarakshana Samithi, Udumbanchola Taluk, Kailasanadu (Idukki Dist.).

Cardamom Planters' Assocn. of Small, Kallar, P.O. Vattiar (Kottayam Dist.).

Cardamom Planters' Assocn., Kerala State, Munnar 685612 (Kottayam Dist.).

Cardamom Planters' Assocn. of Kerala, Vandanmedu 685551 (Idukki Dist.).

Cardamom Small Growers' Assocn., Santosh Villa, Muttambalam, Kottayam 686004.

Cashew Exporters Assocn., India, Mundakkal West, Quilon 691001.

Coconut Oil Mfrs. & Dealers Assocn., Big Bazar, Quilon 691001.

Coir Mats and Matting Mfrs. Assocn., Travancore, Alleppey 688001.

Coir Merchants' Assocn., Cochin, Indian Chamber Bldg., Cochin 682002.

Coir Producers' and Dealers' Assocn., Kerala, Alleppey 688001.

Coir Yarn Merchants' Assocn., Travancore-Cochin, Rajagopala Mandiram, Mullakkal, Alleppey 688001.

Copra Producers & Crushers' Co-op. Socy. Ltd., Nagamahal, Alleppey 688001.

Dairy Products Importers Assocn., Jain Temple Trust Bldg., IV/47, New Rd., Cochin 682002.

Employers' Fedn., West Coast, Bristow Rd., Cochin 682003.

Entrepreneurs Assocn. (State Bank of India Aided), Small Scale, C/o Noble Medical Stores, Trichur 680001.

Handicrafts Apex Co-operative Socy. Ltd., Kerala State, M. G. Rd., Ernakulam, Cochin 682016.

Handloom Assocn., Kerala, Fort Rd., Cannanore [illegible].

Handloom Weavers Co-op. Socy. Ltd., Kerala State, 24/534, Mankav, Calicut 673007.

Hosiery Mfrs. Assocn., Kerala State, P.O. Palapuramba (Cannanore Dist.).

Industrialists' Assocn., West Coast, Empress Hotel Rd., Calicut 673001.

Karshaka Sangam, Kerala Cherukida Ela, Vandanmedu 685551 (Idukki Dist.).

Lemongrass Oil Exporters' Assocn., Indian, P. Box 12, Alwaye 683101.

Malsya (Fish) Mktg. Sahakarna Fedn. Ltd., Kerala, Kochangadi, Cochin 682002.

Manufacturers' Organaisation, All India, Narayan Nivas, Krishnaswamy Iyer Rd. Jn., Ernakulam, Cochin 682011.

Master Printers' Assocn., Kerala, Post Box No. 1161, Ernakulam, Cochin 682011.

Oil Merchants' Assocn., Cochin, Jew Town, Cochin 682002.

Oil Millers' Assocn. (Regd.), Kerala State, 2, Marai Lane, Chittur Rd., Ernakulam, Cochin 682011.

Potato Chamber of Commerce, Cutchery St., Mettupalayam 641301.

Pepper and Spice Trade Assocn., India, XI/72, Jew Town, Cochin 682002.

Pharmaceutical Assocn., Indian, P.B. No. 13, Cochin 682002.

Planters of Kerala, Assocn. of, Kaloor, Cochin 682017.

Planters of Travancore, Assocn. of, VB/95, K. K. Rd., Kottayam 686002.

Plywood Mfrs. Assocn., South Indian, 8/205C, Empress Bldg., Calicut 673001.

Press Owners' Assocn., Ernakulam, Deepam Press Bldgs., Basin Rd., Ernakulam, Cochin 682011.

Printers, Publishers & Lithographers, All Kerala Assocn. of, Padmagiri, Stn. Rd., Pettah, Trivandrum 695024.

Productivity Council, Kerala State, Productivity House, Kalamassery, Alwaye 683104.

Publishers Assocn., All Kerala, Mangalodhyam Bldg., Trichur 680001.

Publishers & Booksellers Assocn., Kerala, Paico Bldg., Jew St., Cochin 682011.

Rice Millowners & Rice Merchants Assocn., Palghat Dist., Sreenarayana Lodge, G. B. Road, Palghat [illegible].

Roads & Transport Devpt. Assocn., Indian, Kerala Sub-Regnl. Office, C/o Coat Tyres of India Ltd., M. G. Rd., Ernakulam, Cochin 682016.

Rubber Marketing Fedn., Ltd., Kerala State Co-op., Carmel Centre, Banerji Rd., Cochin 682018.

Sardine Exports Socy., C/o Marine Products Export Development Authority, Post Box 1708, M. G. Rd., Cochin 682016.

Saw Mills' Assocn., Malabar, Kallai, Calicut 673003.

Seafood Canners and Freezers, Assocn. of India, XIX/5, Kochangadi, Cochin 682002.

Seafood Exporters Assocn. of India, VII/389, Kochangadi, Cochin 682002.

Small Industries Assocn., Kerala State, Opp. Hantex Bldg., Ootukuzi Jn., Trivandrum 695001.

Soap Makers' Assocn., South India, Oyitty Rd., Calicut 673001.

Stevedores' Assocn. of Cochin (P) Ltd., United, River Rd., Cochin 682001.

Tapioca Growers' Co-op. Socy. Ltd., Trichur, Palace Rd., Trichur 680001.

Taxi Owners Assocn., Palayam, Calicut 673001.

Tea Buyers' Assocn., Indian Chamber Bldg., Cochin 682002.

Tea Trade Assocn. of Cochin, Sebrof House, Willingdon Island, Cochin 682003.

Tile Mfrs. Assocn., Central Kerala, Trichur 680001.

Tobacco & Beedi Leaves Merchants' Assocn., Calvethy, Cochin 682001.

Trawlers' Assocn., Lalan Rd., Cochin 682002.

Wood Industrial Co-op. Socy. Ltd., Quilon, Pallimukhu, Quilon 691001.

CULTURAL, SOCIAL AND PROFESSIONAL

Arunodaya Kala Samithi, Kavasseri 678543 (Palghat Dt.).

Ayyappa Seva Sangam, All Kerala, Kottayam 686001.

Bar Assocn., Quilon, Civil Lines, Quilon 691001.

Carrom Assocn., Kerala State, College Rd., Palghat 678001.

Chartered Accountants of India, Instt. of, Ulsavamadom Bldg., North of Padmanabhaswamy Temple, Fort, Trivandrum 695023.

Child Welfare, Kerala State Council for, 15/167, Bhakthivilas Rd., Trivandrum 695014.

Citizens' Council, Kalpathy, Palghat 678003.

Dharma Paripalana Yogam, Sree Narayana, Quilon 691001.

Engineers (India), Insttn. of, 12/33B, Observatory Hill, Trivandrum 695001.

Family Planning Assocn. of India, Red Cross Rd., Trivandrum 695001.

Fine Arts Socy., Kerala, Foreshore Rd., Cochin 682016.

Foot Ball Assocn., Kerala, Cantt., Quilon 691001.

Gandhi Ashram, Mayannur, Via Ottapalam.

Gandhi Seva Sadan, P.O. Gandhi Seva Sadan, Via Perur, Palghat Dist.

Kalamandalam, Kerala, State Academy of Arts, P.O. Cheruthuruthy 679531.

Keralites International Service Socy., T. P. VII/386, Thodupuzha 685584, (Idukki Dist.),

Law Instt., Indian (Kerala Unit), High Court Bldgs., Ernakulam, Cochin 682011.

Materials Management, Indian Assocn. of, C/o Indian Transformers Ltd., HMT Colony, Ernakulam 83503.

Medical Assocn., Indian, Krishna Nursing Home, M. Gandhi Rd., Cochin 682011.

Muslim Assocn., Calicut, Beach Rd., Calicut 673001.

Nair Service Socy., Perunnai, Changanacherry 686101.

Red Cross Socy., Indian, Red Cross Rd., Trivandrum 695001.

Sahithya Akademi, Kerala, Town Hall Rd., Trichur 680001.

Sahithya Pravarthaka Co-op. Socy., Kottayam 686001. A co-operative organisation of the authors of Kerala with branches in Trivandrum, Ernakulam & Trichur.

Sahitya Samithi, Bharatiya, College Rd., Trichur 680001.

Sangeetha Nataka Akademi, Kerala, Model Regional Theatre, Trichur 680001.

Social Welfare, Indian Council of, C/o Instt. of Social Work, Rajagiri, Kalamassery, Alwaye 683104.

Soviet Culture, House of, Gorki Bhavanam, Vanross Jn., Trivandrum 695001.

Sports Council, Kerala, Trivandrum 695001.

Tamil Sangham, Trivandrum, Chenthittai, Trivandrum 695001.

Taxation, Indian Instt. of, Convent Rd., Trivandrum 695001.

TB Assocn. of Kerala, TB Centre, Red Cross Rd., Trivandrum 695001.

Theosophical Fedn., Annapoorni T.S. Lodge, S.D.V. Compound, Alleppey 688001.

Working Journalists, Kerala Union of, Press Club Rd., Cochin 682011.

MADHYA PRADESH

COMMERCIAL

Anaj Tilhan Vyapari Mahasangh, Madhya Pradesh, Hanumanganj, Bhopal 462001.

Ancillary Assocn., B.H.E.L., 154, Type III, B-Section, Piplani, Bhopal 462021.

Commercial Exchange Ltd., Central India, More Bazar, Gwalior 474001.

Fruit Merchants Assocn., Jawaharganj, Jabalpur 482001.

Hosiery Nirmata Sangh, 7, Jawahar Marg., Indore 450204.

Industries, Assocn. of M. P., 25/36, Ind. Estate, Polo Ground, Indore 452003.

Krishi Upaj Vyapari Sangh, Laxmibai Nagar Main Market, Indore 452002.

Machinery Dealers' Assocn., Patankar Bazar, Gwalior 474001.

Manufacturers' Organisation, All India, M. P. Indl. Foundation Bldg., Ind. Estate, Pologround, Indore 452003.

Marketing Fedn., Ltd., M. P. State Co-operative, Maheshwari Bldg., P.O. Jehangirabad, Bhopal 462008.

Paints & Chemical Industries Assocn., M. P., 2, Ind. Estate, Bhopal 462001.

Productivity Council, Indore, B-14, Industrial Estate, Indore 452003.

Readymade Vastra Vikreta Sangh, Madhya Pradesh, 479, M. G. Rd., Indore 452001.

Rice Mill Owners' Assocn., Bilaspur, [illegible] Bilaspur [illegible].

Small Scale Industries Orgn., Madhya Pradesh, [illegible], Malviya Nagar, Bhopal [illegible].

Sugar Mills' Assocn., Madhya Pradesh, [illegible], Devi Ahilya Mrg., Indore 452003.

Tambaku Vyapari Sangh, [illegible], Gwalior [illegible].

Textile Assocn. of India (Regd.), C/o Hukumchand Mills Ltd., Indore 452003.

Textile Mills Assocn., Madhya Pradesh, 8, South Tukoganj, St. No. 1, Indore 452001.

CULTURAL, SOCIAL AND PROFESSIONAL

Acharya Kul, All India, [illegible] Colony, Gwalior 474001. A national orgn. of teachers, writers & scholars, who are free from party affiliations, to promote self-discipline in society and encourage [illegible] on Gandhian lines.

Anatomical Socy. of India, Deptt. of Anatomy, Gandhi Medical College, Bhopal 462001.

Botanical Socy., Indian, Deptt. of Botany, Vikram Univ., Ujjain [illegible].

Buddhist Socy. of India, Bhilai Nagar [illegible].

Carrom Assocn., Madhya Pradesh State, New Extn. Area, Chhindwara [illegible].

Chartered Accountants of India, Instt. of, 2, Prince Yeshwant Rd., Indore 452002.

Engineers (India), Insttn. of, Hostel No. 2, Piplani, Bhopal 462021.

Engineers (India), Insttn. of, 17, Park Rd., Indore 452003.

Family Planning Assocn. of India, 120, Malviya Nagar, Bhopal 462003.

Homoeopathic & Biochemic Assocn., Central, Kasera Oli Mrg., Gwalior 474001.

Library Assocn., M.P., 2/21, South T. T. Nagar, Bhopal 462003.

Local Authorities, Fedn., of All India, [illegible] Chowk, Satna [illegible].

Pharmaceutical Assocn., Indian, Deptt. of Pharmaceutical Sciences, Saugor Univ., Sagar 470001.

Plant Industry, Instt. of, Old Residency Area, Indore 452001.

Red Cross Socy., Indian, Shivaji Nagar, Link Rd. No. 2, Bhopal [illegible].

Social Welfare, Indian Council of, C/o Indore School of Social Work, [illegible], Old [illegible] Rd., Indore [illegible].

Theosophical Fedn., '[illegible] Niwas', Kothi Rd., Ujjain [illegible].

TB Assocn. of Madhya Pradesh, TB Hospital, Idgah Hills, Bhopal 462001.

MAHARASHTRA

GREATER BOMBAY

COMMERCIAL

Acrylic Sheets Mfrs. Assocn., All India, C/o [illegible] Mansion, [illegible] Rd., Bombay [illegible].

Advertisers Ltd., Indian Socy. of, [illegible], M. Gandhi Rd., Bombay [illegible].

Advertising Agencies Assocn. of India, [illegible], M. Gandhi Rd., Bombay [illegible].

Advertising Agents' Assocn. of India, Railways, 1107, Prasad Chambers, Opera House, Bombay [illegible].

Advertising Council of India, Army & Navy Bldg., M. Gandhi Rd., Bombay 400023.

Aerated Water Mfrs.' Assocn., Bombay, [illegible], Tardeo Rd., Bombay [illegible].

Agarwoods Exporters' Assocn., [illegible], Bombay 400003.

Agricultural Co-op. Mktg. Fedn. Ltd., National, 84, Nariman Rd., Bombay 400020.

Alkali Mfrs. Assocn. of India, [illegible], Homi Mody St., Bombay [illegible].

Aluminium Small Scale Mfrs. Assocn., Maharashtra, C/o Aluminium Rolling & Spg. Mills Pvt. Ltd., [illegible] Rd., Mogra West, Andheri (East), Bombay [illegible].

Arms Dealers' Assocn., Bombay, 246, Abdul Rehman St., Bombay [illegible].

Art Silk Doubling Mills Assocn. Ltd., Bharat, Shanti Mansion, [illegible], Bombay [illegible].

Art Silk Fabric Mfrs. Assocn., 78, Veer Nariman Rd., Bombay 400020.

Audit Bureau of Circulations Ltd., Wakefield House, B. Estate, Bombay 400038. The Bureau engages itself in the certification of circulation figures of publications enrolled with it, and disseminates information so collected to all its members.

Automobile and Ancillary Industries Assocn., All India, 80, Dr. A. Besant Rd., Bombay 400018.

Automobile Assocn., Western India, 76, Veer Nariman Rd., Bombay 400020. *Branch Offices*: [illegible], Khanpur Rd., Ahmedabad, 380001; 7, Moledina Rd., Pune 411004; Cathedral Business Blocks, Residency Rd., Nagpur [illegible]; Rajendra Bhavan, F/74, Subhas Mrg., C-Scheme, Jaipur 302002; Tourist Hostel, Panaji [illegible] Goa.

Automobile Assocns., Fedn. of Indian, 76, Veer Nariman Rd., Bombay [illegible].

Automobile Dealers' Assocns., Fedn. of, [illegible], Sardar V. P. Rd., Bombay [illegible].

Automobile Mfrs., Assocn. of Indian, Army and Navy Bldg., M. Gandhi Rd., Bombay [illegible].

Bakers' Assocn., Bombay, Court House, Lokmanya Tilak Marg, Bombay [illegible].

Ball Bearing Merchants' Assocn., All India, [illegible], Abdul Rahman St., Bombay [illegible].

Bangles Mfrs. Assocn., All India Plastic, Shanti Nagar, [illegible], Malad West, Bombay [illegible].

Banks Assocn., Indian, Stadium House, Veer Nariman Rd., Bombay 400020.

Banks' Fedn., All India State Co-operative, [illegible] House, Dr. A. Besant Rd., Worli, Bombay 400018.

Bidi Industry Fedn., All India, 12, Rampart Row, Bombay [illegible].

Bobbin Mfrs. Assocn., All India, [illegible], Prasad Chambers, Opera House, Bombay [illegible].

Bolts Nuts Merchants' Assocn., Bombay, [illegible], Nagdevi Cross Lane, Bombay [illegible].

Book Mfrs. Assocn., 183, Abdul Rehman St., Bombay 400003.

Booksellers' Assocn., Bombay, C/o Usha Book Depot, 585A, Chira Bazar, Bombay 400002.

Bright Steel Mfrs. Assocn. of India, Sealord, Cuffe Parade, Bombay 400005.

Builders' Assocn. of India, G-1/G-20, Commerce Centre, J. Dadajee Rd., Tardeo, Bombay 400034.

Bullion Assocn. Ltd., Bombay, 185, Sheikh Memon St., Bombay 400002.

Camphor Tablets Mfrs. Assocn., Bombay, 218, Samuel St., Bombay 400003.

Canvas & Tarpaulin Merchants' Assocn., Bombay, 257/59, Masjid Bunder Rd., Bombay 400003.

Cement Mfrs. Assocn., Express Bldg., Opp. Churchgate Rly. Stn., Bombay 400020.

Cement Tiles Mfrs. Assocn., 8/10, Green St., Bombay 400023.

Charcoal Merchants' Assocn. Ltd., Bombay, Coal Depot, Sewri, Bombay 400015.

Chemical and Alkali Merchants' Assocn., Himalaya House, Paltan Rd., Bombay 400001.

Chemical Auxiliaries Mfrs. Assocn., Indian, C/o Assocn. of Merchants & Mfrs. of Textile Stores & Machinery (India), 18/20, Rampart Row, Bombay 400023.

Chemical Importers & Dealers Assocn., All India Fine, Bharat Mahal, Subhas Rd., Bombay 400002.

Chemical Industry, Technical Information Centre for, 16, Apollo St., Bombay 400023.

Chemical Mfrs. Assocn., Indian, 16, Bombay Samachar Mrg., Bombay 400023.

Chemical Plant & Machinery Assocn. of India, C/o Bombay Chamber of Commerce & Ind., Mackinnon Mackenzie Bldg., B. Estate, Bombay 400038.

Chemists' and Druggists' Assocn., 48, S. Gandhi Mrg., Bombay 400002.

Chlorobenzenes Mfrs. Assocn., All India Small Scale, 14, Garibdas St., Vadgadi, Bombay 400003.

Cloth Dealers' Assocn., Fedn. of Bombay Retail, 24/30, 1st Marine St., Bombay 400002.

Clothing Mfrs. Assocn. of India, Mahalaxmi Chambers, 902/22, Bhulabhai Desai Rd., Bombay 400026.

Clove Merchants Assocn., Bombay, 177, Samuel St., Bombay 400009.

Coal & Coke Merchants' Assocn. Ltd., Bombay, Rewa Chambers, V. Thackersey Marg, Bombay 400020.

Company Secretaries' Assocn., C/o Ulka Advertising, Nirmal, Nariman Point, Bombay 400021.

Copperware Mfg. Assocn., Small-Scale, 39, Bhajipala St., Bombay 400003.

Cork Mfrs. Assocn., All India Small Scale, 64, Old Custom House Rd., Bombay 400001.

Corrugated Box Mfrs. of India, Fedn. of, 17-B, Noble Chambers, Ghoga St., Bombay 400001.

Cotton Assocn. Ltd., East India, Cotton Exchange, Marwari Bazar, Bombay 400002.

Cotton Buyers' Assocn., Eucharistic Congress Bldg., 4th Floor, 5, Convent St., Bombay 400039.

Cotton Mills' Fedn., Indian, 34, P. D'Mello Rd., Wadi Bunder, Bombay 400009.

Cotton Waste Exporters' Assocn., All India, Sapt Bldg., Graham Rd., B. Estate, Bombay 400038.

Cottonseed Crushers' Assocn., All India, 198, Jamshedji Tata Rd., Bombay 400020.

Crimpers Assocn., All India, Silk House, Silk Bazar, Bombay 400002.

Custom House Agents' Assocns. in India, Fedn. of, Kaikhushuroo Bldg., 237, P. D'Mello Rd., Bombay 400001.

Cutlery, Toys, Glass Beads and Sundry Merchants' Assocn., Bombay, 106, Bhusari Mohalla, Bombay 400003.

Diamond Merchants' Assocn., Bombay, 3, Dhanji St., Bombay 400003.

Diesel Engine Mfrs. Assocn., Indian, 105, Kakad Chambers, 132, Dr. A. Besant Rd., Bombay 400018.

Documentary Producers' Assocn., Indian, National House, Tulloch Rd., Apollo Bunder, Bombay 400039.

Drop Forging and Stamping Industries, Assocn. of Indian, 80, Dr. A. Besant Rd., Bombay 400018.

Drug Mfrs. Assocn., Indian, Sujat Mansion, S. V. Rd., Andheri West, Bombay 400058.

Dugdh Utpadak Sahakari Mandal, Maharashtra, 291, G. Kadam Mrg., Bombay 400013.

Dyestuff Mfrs. Assocn. of India, Room Nos. 46-47, 296, Samuel St., Bombay 400003.

Economic Devpt. Council, Maharashtra, 106, N. Master Rd., Bombay 400023. Organisation of all the prominent Chambers of Commerce Industries and Trade Assocns. of Maharashtra.

Electric Merchants' Assocn., Shreeji Bhavan, Lohar Chawl, Bombay 400002.

Electric Motor Mfrs.' Assocn., All India, Hague Bldg., 4th flr., Sprott Rd., B. Estate, Bombay 400038.

Electrical Cable Devpt., Assocn., 503, Arun Chambers, Tardeo Rd., Bombay 400034.

Electrical Contractors' Assocn., 63, New Stock Exchange Bldg., Apollo St., Bombay 400023.

Electrical Mfrs. Assocn., Indian, Kakad Chambers, Dr. A. Besant Rd., Bombay 400018.

Electricity Undertakings of India, Fedn. of, Transport House, S. Bhagat Singh Rd., Bombay 400039.

Electronic Component Industries Assocn., Handloom House, Dr. D. Naoroji Rd., Bombay 400001.

Electronic Industries Assocn., Small Scale, 1203, Prasad Chambers, Tata Rd., Bombay 400004.

Embroidered Textile Mfrs. Assocn., All India, Bombay Cotton Mills Estate, Dattaram Lad Path, Kalachowki Rd., Bombay 400033.

Employers' Fedn. of India, Army & Navy Bldg., 148, M. Gandhi Rd., Bombay 400023.

Engineering Industry, Assocn. of Indian (W. Regn.), 105, Kakad Chambers, Dr. A. Besant Rd., Bombay 400018.

Exercise Books Mfrs. Assocn., All India Fedn. of, 299, Abdul Rehman St., Bombay 400003.

Fair Trade Practices Assocn., Great Western Bldg., 130/132, Apollo St., Bombay 400023.

Ferro Alloy Producers' Assocn., Indian, 14, M. Karve Rd., Bombay 400020.

Ferrous & Non-Ferrous Mfrs. Assocn., Bombay, 201/13-12, Panjarapole, 3rd Lane, Bombay 400004.

Fishermen Co-op. Union Ltd., Maharashtra Rajya Machhimar Sahakar Sangh Ltd., 443, M. Rokde St., Bombay 400009.

Fertiliser Assocn. of India, W. Regnl. Branch, 305, Neelkanth, 98, Marine Drive, Bombay 400002.

Fertiliser Co-operative Ltd., Indian Farmers, Brady's Flats, S. Bharucha Rd., Bombay 400005.

Flour Mills Owners' Assocn., Bombay, Parekh Wadi, V. P. Rd., Bombay 400004.

Food Processing Industry Assocn., Indian, C/o P. S. Purohit, 3, Sadashiv St., Bombay 400004.

Footwear Mfrs.' Assocn., All India, 'Nirmal', 3rd Floor, Nariman Point, Bombay 400021.

Foreign Exchange Dealers Assocn. of India, C/o Syndicate Bank, Oberoi Sheraton Hotel, Nariman Pt., Bombay 400021.

Foreign Trade, Indian Council of, 5, New Marine Lines, Bombay 400020.

Foundry Owners' Assocn., Bombay Type, B-196, Gaiwadi, Girgaum, Bombay 400004.

Fountain Pen Mfrs. & Traders Assocn., Bombay, Post Box No. 7471, Jogeshwari (East), Bombay 400060.

Freight Brokers' Assocn., Bombay Overseas, C/o H. Toolsidass, 5, Graham Rd., B. Estate, Bombay 400038.

Fruit & Vegetable Merchants' Assocn., F Block, Room No. 13, Sitaram Bldg., Near Jyotiba Phule Mkt., Bombay 400001.

Gem & Jewellery Exporters Assocn., 29, Gurukul Chambers, 187-189, Mumbadevi Rd., Bombay 400002.

Goods Transport Assocn., Bombay, Mehta Chambers, Kalyan St., Bombay 400009.

Grain, Rice & Oilseeds Merchants' Assocn., 72-80, Yusuf Meheralli Rd., Bombay 400003.

Graphic Machinery Importers Assocn., Sambava Chambers, 20, Sir P.M. Rd., Bombay 400001.

Groundnut Extractions Export Devpt. Assocn., Tanna House, 11-A, Nathalal D. Parikh Mrg., Bombay 400039.

Gunny Bags Merchants' Assocn., Bombay, 67, Bhandari St., Bombay 400003.

Handicrafts Devpt. Assocn., Indian, "Nirmal Mahal", Bomanji Petit Rd., Bombay 400036.

Handloom Fabrics Marketing Co-op. Socy. Ltd., All India, Maker Chambers, Nariman Pt., Bombay 400021.

Handloom & Powerloom Exporters Assocn., Bombay, [illegible] Bldg., Sir P.M. Rd., Bombay 400001.

Hardware Merchants' Assocn., Bombay, 57, Sarang St., Bombay 400003.

Hessian & Gunny Merchants Assocn., Bombay, 305, Narsi Natha St., Bombay 400009.

Hosiery Mfrs.' Assocns. of India, Fedn. of, 70/72, Sheriff Devji St., Bombay 400003.

Hotel and Restaurant Assocn. (W. India), Taj Mahal Hotel, Merewether Rd., Apollo Bunder, Bombay 400039.

Hotels' Assocn., Bombay, 243, Masjid Bunder Rd., Bombay 400003.

Hotels Fedn., Bombay City & Suburban, Dossa House, Gunbow St., Bombay 400001.

Housing Finance Socy. Ltd., Maharashtra Co-op., Temple Bar Bldg., 70, Dr. V. B. Gandhi Mrg., Bombay 400001.

Importers' Assocn., All India, 32, Nariman Rd. Bombay 400001.

Industrial Diamond Assocn. of India, C/o Bombay Chamber of Commerce & Ind., Mackinnon Mackenzie Bldg., B. Estate, Bombay 400038.

Industrial Estate Ltd., Bombay Co-op., Sahakar Bhavan, Kurla Industrial Estate, Bombay 400086.

Industries, All India Assocn. of, Wakefield House, 11, Sprott Rd., Ballard Estate, Bombay 400038.

Instrument Assocn. of India, 83, Mahendra Chambers, 134/36, Dr. D. Naoroji Rd., Bombay 400001.

Instrument Mfrs.' and Dealers' Assocn., All India, A-32, Navyug Nivas, Dr. D. Bhadkamkar Mrg., Bombay 400007.

Instruments Export Organisation, IMDA, A-32, Navyug Nivas, 167, Dr. D. Bhadkamkar Rd., Bombay 400007.

Insurance Assocn. of India, Bombay Regnl. Council, Radia House, 6, Rampart Row, Bombay 400023.

Iron Merchants' Assocn., Bombay, 501, Steel Centre, Sant Tukaram Rd., Bombay 400009.

Iron & Steel Exporters Assocn., All India, Loha Bhavan, P. D'Mello Rd., Bombay 400009.

Iron & Steel Scrap Assocn. of India, 301/2, 3rd Flr., Giriraj, 73, Sant Tukaram Rd., Bombay 400009.

Leather Goods Mfrs. and Dealers' Assocn., 157/161, Princess St., Bombay 400002.

Livestock Feeds Mfrs. Assocn. of India, Compound, 111, Mittal Chambers, Nariman Pt., Bombay 400021.

Lorry Operators' Syndicate, Bombay, 575, Sheriff Devji St., Bombay 400003.

Loss Prevention Assocn. of India Ltd., Warden House, Sir P. Mehta Rd., Bombay 400001.

Machine Tool Mfrs. Assocn., Indian, 82, Jolly Maker Chambers No. 2, 225, Nariman Point, Bombay 400021.

Man-made Fibre Industry, Assocn. of, 78, Veer Nariman Rd., Bombay 400020.

Man-made Fibre Spinners' Assocn., Jolly Maker Chambers, 2, Nariman Pt., Bombay 400021.

Man-Made Textiles, Devpt. Council for, C/o Office of the Textile Commr., New C.G.O. Bldg., New Marine Lines, Bombay 400020.

Manufacturers' Organisation, All India, Jeevan Sahakar, Sir P. Mehta Rd., Bombay 400001.

Marble & Tile Merchants' Assocn., Bombay, C/o C. Bhogilal & Co., Mint Rd., Bombay 400001.

Master Printers' Assocn., Bombay, 216, Neelam, 108, Worli Seaface Rd., Bombay 400018.

Mercury Traders' Assocn. Ltd., Bombay, 220, Samuel St., Bombay 400003.

Metal Exchange Ltd., Bombay, Gogate Mansion, Kika St., Bombay 400002.

Metal Finishers Assocn., Parijat, Block 24, 95, Marine Drive, Bombay 400002.

Mill Gin Store Merchants' Assocn., 88/92 Nagdevi Cross Lane, Bombay 400003.

Millowners' Assocn., Elphinstone Bldg., Veer Nariman Rd., Bombay 400001.

Mineral Merchants' & Mfrs.' Assocn., Bombay, 129, Kazi Syed St., Bombay 400003.

Motor Merchants' Assocn. Ltd., Bombay, Sukh-Sagar, Sandhurst Bridge, Bombay 400007.

Motor Parts Dealers' Assocn., Maharashtra, 34, Mathew Rd., Bombay 400004.

Motor Transport Assocns., Fedn. of, 26, P. D'Mello Rd., Bombay 400009.

Mudrak Sangh, Mumbai, C/o General Printers & Publishers, 263/F, Raja Ram Mohan Roy Rd., Bombay 400004.

Mutton Dealers' Assocn., Bombay, Jam-e-Masjid, Bandra, Bombay 400050.

Newspapers' Assocn., Indian Language, Janmabhoomi Bhavan, Ghogha St., Bombay 400001.

Non-Ferrous Metal Industries Assocn., All India, C/o Jeewanlal (1929) Ltd., Liberty Bldg., Marine Lines, Bombay 400020.

Oil Industry Assocn., All India Non-Edible, Royal Insurance Bldg., J. Tata Rd., Bombay 400020.

Oil Industry and Trade, Central Orgn. for, Anna Bhavan, 87/C, Broach St., Bombay 400009.

Oil Millers' Assocn. Ltd., Bombay Local, 363, Katha Bazar, Bombay 400009.

Oil and Produce Exporters' Assocn., Indian, Bajaj Bhavan, Nariman Pt., Bombay 400021.

Oilseeds and Oils Exchange Ltd., Bombay, Jenabai Bldg., Yusuf Meherally Rd., Bombay 400003.

Onion & Potato Wholesale Merchants' Assocn., 438, Duncan Rd., Bombay 400004.

Packaging Mfrs. Forum, All India Flexible, 904-B, Surya Apartments, 53, Warden Rd., Bombay 400026.

Paint and Allied Industries Assocn., All India Small Scale, 310, Arun Chambers, Tardeo Rd., Bombay 400034.

Paint Assocn., Indian, C/o Bombay Chamber of Commerce & Ind., Mackinnon Mackenzie Bldg., B. Estate, Bombay 400038.

Pan Bazar Assocn., Lokmanya, Badrikashram, 2nd Khetwadi Lane, Bombay 400002.

Paper & Allied Products Mfrs. Assocn., All India, Vaswani Mansion, 120, D. Vachha Rd., Bombay 400020.

Paper Traders' Assocn., 54, Sutar Chawl, Bombay 400002.

Paper Traders' Assocn. of India, Fedn. of, Commerce House, 140, N. Master Rd., Bombay 400023.

Pearl Dealers' Assocn., Genuine, 82/86, Abdul Rehman St., Bombay 400003.

Pepper and Ginger Merchants' Assocn. Ltd., 332-34, Narsi Natha St., Bombay 400009.

Pest Control Assocn., Indian, Puribai Smruti Bldg., 47/49, Mint Rd., Bombay 400001.

Pesticides Assocn. of India, Ralli House, Ravelin St., Bombay 400001.

Petroleum Products Importers Assocn., All India, C/o H. J. Leach & Co., Asian Bldg., Nicol Rd., Ballard Estate, Bombay 400038.

Pharmaceutical and Allied Mfrs.' and Distributors' Assocn. Ltd., Mackinnon Mackenzie Bldg., B. Estate, Bombay 400038.

Pharmaceutical Assocn., Indian, Kalina, Santa Cruz (East), Bombay 400029.

Pharmaceutical Producers of India, Organisation of, Cook's Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Photographers' Assocn., Professional, Vanguard Studios, Opp. Thakurdwar P. O., Bombay 400002.

Photographic and Allied Trades Assocn. Ltd., Western India, Mangrol Mansion, 6, Gunbow St., Bombay 400001.

Pipes and Fittings Merchants' Assocn., Bombay, 84, Nagdevi St., Bombay 400003.

Plastic Machinery Mfrs. Assocn., All India Small Scale, C/o Foranco, National House, 6, Tulloch Rd., Bombay 400039.

Plastic Pipes and Fitting Mfrs. Assocn., Small Scale, National House 6, Tulloch Rd., Bombay 400039.

Plastics Mfrs. Assocn., All India, Jehangir Bldg., M Gandhi Rd., Bombay 400023.

Polyester Staple Fibre Mfrs., Assocn. of, Mittal Chambers, 228, Nariman Pt., Bombay 400021.

Polymers Mfg. Industries Assocn., 5, Jyoothika Mukrand Socy., Cadell Rd., Bombay 400016.

Polythene Layflat Tubing Mfrs. Assocn., All India Small Scale, 116, Sarang St., Bombay 400003.

Powerloom Industries Assocn., 12, Rampart Row, Bombay 400023.

Press Owners' Assocn., Bombay, 196B, Gaiwadi Bombay 400004.

Printers, All India Fedn. of Master, C/o Bombay Samachar Ltd., Horniman Circle, Bombay 400023.

Printing Materials & Ink Dealers Assocn., C/o Gandhi Stationery Mart, 178, Bazar Gate St., Bombay 400001.

Produce Exporters' Assocn., Indian, 76, Sheriff Devji St., Bombay 400003.

Productivity Council, National, Novelty Chambers, Grant Rd., Bombay 400007.

Publications Assocn., Specialised, 235, Dr. D. Naoroji Rd., Bombay 400001.

Publishers' and Booksellers' Assocns., in India, Fedn. of, C/o India Book House, Rusi Mansion, 29, Nathalal D. Parikh Mrg., Bombay 400039.

Pump Mfrs.' Assocn., Indian, 105, Kakad Chambers, 132, Dr. A. Besant Rd., Bombay 400018.

Radio Advertisers & Producers Assocn. of India, 305, Neelam, Worli, Bombay 400018.

Radio Electronic and Television Mfrs.' Assocn., Wavell House, B. Estate, Bombay 400038.

Radio & Electronics Assocn., All India, Sukh Sagar, N. S. Patkar Mrg., Bombay 400007.

Refrigeration and Air Conditioning Trades Assocn., Limited, C/o Bombay Cycle & Motor Agency Ltd., 534, Sardar V. Patel Rd., Bombay 400007.

Rice Merchants' Assocn., Bombay, 72, Y. Meheralli Rd., Bombay 400003.

Roads and Transport Devpt., Assocn. Ltd., Indian, 27, Bastion Rd., Bombay 400001.

Roller Flour Millers Assocn., Maharashtra, C/o Maharashtra Chamber of Commerce 12, Rampart Row, Bombay 400023.

Rubber Industries Assocn., All India, Navjivan Socy. Bldg., Lamington Rd., Bombay 400008.

Safety Appliances Mfrs. Assocn., 11/43 Tamarind St., Bombay 400023.

Salt Mfrs.' Assocn., Indian, Tanna House Annexe, 11-A, Nathalal D. Parikh Marg, Bombay 400039.

Salt Merchants' & Shilotries' Assocn., Bombay, 583, Chira Bazar, Bombay 400002.

Sanitaryware Assocn., Bombay, 8/10, Green St., Bombay 400023.

Screen Printers & Processors Assocn., Bombay, Neelam, Plot No. 108, Worli Sea Face, Bombay 400018.

Sheet Rollers' Assocn., Western India, 32, R. Kamani Marg, Ballard Estate, Bombay 400038.

Shipowners' Assocn., Indian National, Scindia House, Ballard Estate, Bombay 400038.

Shippers Assocn., Western India, Indian Merchants' Chamber, 76, Veer Nariman Rd., Bombay 400020.

Shoddy Mills Assocn., Indian, C/o Simplex Woollen Mills, Sadhana Rayon House, Dr. D. Naoroji Rd., Bombay 400001.

Shroffs' Assocn. Ltd., Bombay, 233, Shroff Bazar, Bombay 400002.

Shuttle Mfrs.' Assocn., C/o Acme Bobbins & Shuttles Pvt. Ltd., 315, S. Veer Savarkar Mrg., Bombay 400028.

Silk Merchants' Assocn., Dahanukar Bldg., Kalbadevi Rd., Bombay 400002.

Sindwork Merchants' Assocn., All India, 231, Dr. D. Naoroji Rd., Bombay 400001.

Small Scale Industries Corpn. of India, Assocn. of, Bombay Life Bldg., 45 Veer Nariman Rd., Bombay 400023.

Soap Mfrs'. Assocn., Non-Power, Sabun Bhavan, 187, Sheriff Devji St., Bombay 400003.

Solvent Extractors' Assocn. of India, Jolly Maker Chambers, No. 2, Nariman Pt., Bombay 400021.

Spg. Mills Ltd., All India Fedn. of Co-op., 14, Marzban Rd., Bombay 400001.

Spring Mfrs.' Assocn., of India, All India, C/o Bombay Chamber of Commerce & Ind., Mackinnon Mackenzie Bldg., B. Estate, Bombay 400038.

Stainless Steel Industries Assocn., All India, Arun Chambers, Tardeo Main Rd., Bombay 400034.

Stainless Steel Merchants' Assocn., 29C, Sarvodaya Nagar, Panjrapole, Bombay 400004.

Starch Mfrs.' Assocn. (Pvt.) Ltd., All India, 159, Colaba Rd., Bombay 400005.

Stationers Assocn., Bombay, 237, Abdul Rehman St., Bombay 400003.

Stevedores', Fedn. of Assocns. of, Janmabhoomi Chambers, Fort St., Bombay 400001.

Stock Exchange, Dalal St., Bombay 400023.

Sugar Factories' Assocn., Deccan, Stadium House. Block No. 2, Veer Nariman Rd., Bombay 400020.

Sugar Merchants' Assocn. Ltd., Bombay, Ahmedabad St., Bombay 400009.

Sugar Mills Assocn., Indian, 5, Convent St., Bombay 400039.

Synthetic Fibre Industry, Assocn. of, Raj Mahal. 84, Veer Nariman Rd., Bombay 400020.

Tailors & Outfitters Assocn., Bombay Merchant. C/o Yak's, 48, Hughes Rd., Bombay 400007.

Tarpaulin Merchants' Assocn., Bombay, 297, Narsi Natha St., Bombay 400009.

Tax Consultants' Assocn. of India, 103, Sharda Chambers, New Marine Lines, Bombay 400020.

Taximens' Union, Bombay, Navjivan Co-op. Housing Socy., D. Bhadkamkar Mrg., Bombay 400008.

Technical Entrepreneurs Assocn., All India, National House, 6, Tulloch Rd., Bombay 400039.

Textile Assocn. (India), 72A, Shivaji Park Corner Rd., Bombay 400028.

Textile and Engineering Assocn., Bombay, 343, Sattar Bldg., Grant Rd., Bombay 400007.

Textile Machinery Mfrs.' Assocn., 53, Mittal Chambers, Nariman Point, Bombay 400021.

Textile Merchants' Assocn., Swadeshi Market, 113, Cavel St., Bombay 400002.

Textile Processors' Assocn., (India), 414, Senapati Bapat Marg, Bombay 400013.

Textile Stores and Machinery, India, Assocn. of Merchants and Mfrs. of, Bhogilal Hargovindas Bldg., 18/20, Rampart Row, Bombay 400023.

Theatre Owners Assocn., Navjivan Bldg., 1, Bhadkamkar Mrg., Bombay 400009.

Tiffin Box Suppliers Assocn., Bombay, Nav Prabhat Chambers, Ranade Rd., Bombay 400028.

Timber Merchants' Assocn. Ltd., Bombay, 67, Victoria Rd., Mustafa Bazar, Bombay 400010.

Tin Plate Fabricators Assocn., Zenith Bldg., Clerk Rd., Bombay 400034.

Tobacco Merchants' Assocn. Ltd., Indian, 184, Clive St., Bombay 400009.

Toy Mfrs.' Assocn., All India, 4, Meher Bldg., Chowpatty, Bombay 400007.

Tractor, Earthmoving and Construction Equipment Distributors' Assocn. Ltd., Mackinnon Mackenzie Bldg., B. Estate, Bombay 400038.

Trade Fairs & Exhibitions, Indian Council of, Jhansi Castle, Cooperage Rd., Bombay 400039.

Trade and Industry, Assocn. of Indian, Bombay Mutual Chambers, Hamam St., Bombay 400023.

Trade Mark Owners Assocn. of India, Army & Navy Bldg., M. Gandhi Rd., Bombay 400023.

Trade & Technical Publications Assocn., 12, Fort Chambers, Hamam St., Bombay 400023.

Travel Agents Assocn. of India Ltd., 35, Anjali, Behind Radio Club, Arthur Bunder Rd., Bombay 400005.

Tyre Dealers' Assocn., Bombay, Nav Sanket Apartments, Navroji Hill Rd., Bombay 400009.

Vanaspati Mfrs.' Assocn. of India, Harilela House, Mint Rd., Bombay 400001.

Vegetable Oil Assocn. of India, Anna Bhavan, 87-C, D. Rattansey Marg, Bombay 400009.

Village Industries Assocn., Bombay Suburban, 286, Dr. D. Naoroji Rd., Bombay 400001.

Watch Dealers' Syndicate, Bombay, 78, Abdul Rehman St., Bombay 400003.

Watch Importers Assocn., C/o Express Watch Co., 78, Abdul Rehman St., Bombay 400003.

Watch Straps Mfrs.' Assocn., All India, Empire Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Watch Trade Fedn., Court Chambers, 35, New Marine Lines, Bombay 400020.

Wires Mfrs. Assocn. of India, Winding, B-1/3, Sea Lord, Cuffe Parade, Bombay 400005.

Woollen Mills Fedn., Indian, Churchgate Chambers, 5, New Marine Lines, Bombay 400020.

Yarn Merchants' Assocn. and Exchange Ltd., Bombay, Bombay Yarn House, Nakhoda St., Bombay 400003.

X-ray & Electro-Medical Traders' Assocn., All India, Fazalbhoy Bldg., 45, M. Gandhi Rd., Bombay 400023.

CULTURAL, RELIGIOUS AND SOCIAL

Adoption, Indian Assocn. for Promotion of, Mathuradas Bldg., II Flr., 43/45, Shahid Bhagat Singh Rd., Colaba Causeway, Bombay 400039.

Adivasi Seva Mandal, Maharashtra Pradesh, Marthanda Bldg., A. Besant Rd., Bombay 400018.

Aga Khan's Khoja Shia Imami Ismaili Council, H. H. Khoja Jamat Khana, Khadak, Bombay 400009.

Ahmadiyya Muslim Mission, 'Alhaq', 17, YMCA Rd., Bombay 400008.

Ambulance Assocn., Popular, J. Dadajee Rd., Bombay 400007.

Ambulance Assocn., St. John, 141, Bhagat Singh Rd., Bombay 400001.

Ambulance Corps, Bombay City, 21, Marine Lines, Bombay 400020.

Ambulance Socy., Muslim, 154, Kambekar St., Bombay 400003.

American Cultural Center, 4, New Marine Lines, Bombay 400020.

Andhra Mahasabha (Regd.), Bombay, Opp. King George High School, Lakhamsi Nappoo Rd., Bombay 400019.

Anglo Indian Assocn., All India, F5, Sangam Bhuvan, Opp. Strand Cinema, Colaba, Bombay 400005.

Animal Welfare Assocn., All India, 394A, Bhaudaji Rd., Bombay 400019.

Animals, Socy. for the Prevention of Cruelty to, Hospital Rd., Bombay 400012.

Anjuman-i-Faiz-i-Panjetani, 69, Samuel St., Bombay 400003.

Arab Cause, Indian Committee for, 1st Lady Jamshedji Cross Rd., Bombay 400016.

Artytoys Industrial Scheme Trust, Sir Ratan Tata Welfare Centre, Sir Ratan Tata Rd., Tardeo, Bombay 400034.

Arya Samaj, Kakadwadi, V. Patel Rd., Bombay 400004.

Asiatic Socy. of Bombay, Town Hall, Bombay 400023.

Assistance, Rehabilitation, Relief & Aid, Maharashtra (Sarram), Socy. for, C/o Hindustan Standard, United Bank of India Bldg., Sir P. Mehta Rd., Bombay 400001.

Astrological Research Centre, 3, Benny's Cot, Bhaudaji Rd., Matunga, Bombay 400019.

Ayappa Seva Sangam Bombay (Regd.), P.O. Box No. 7504, 185, Bangur Nagar, Goregaon, Bombay 400062.

Baha'i Centre, 35, New Marine Lines, Bombay 400020.

Balkan-Ji-Bari & All India Youth Assocn., "Gulistan", 12th Rd., Khar, Bombay 400052.

Bapnu Ghar, 12A, A. Besant Rd., Bombay 400018.

Beggars' Home for Females, Chembur, Bombay 400071.

Bhagini Samaj, 225, N. Desai Rd., Bombay 400004.

Bhagini Samaj, Dadar, 3rd Lane, Hindu Colony, Bombay 400014.

Bhagvad Gita Pathashala, Shrimad, Madhav Baug, Bombay 400004.

Bharat-Mauritius Friendship Socy., 7/98, Azad Nagar, J.P. Rd., Bombay 400058.

Bharatiya Samaj, Shri Brihad, N. K. M. International House, 178, Backbay Reclamation, Bombay 400020.

Bhulabhai Desai Memorial Instt., 89, B. Desai Rd., Bombay 400026.

Bible Socy. of India and Ceylon, India House, Opp. G.P.O., Fort St., Bombay 400001.

Billawar Assocn., 64/75, Modi St., Bombay 400001.

Brahman Sahayak Sangh, Shivaji Park Rd. No. 3, Bombay 400028.

Brahmin Assocn., Bombay South Kanara, 273, Sion Matunga Estate, Bombay 400022.

Braj Mandal, 1107, Prasad Chambers, Near Roxy Cinema, Bombay 400004.

British High Commission — British Council Division, French Bank Bldg., Homji St., Bombay 400001. *Library :* N. K. Mehta International House, 178, Backbay Reclamation, Bombay 400020.

Cactus and Succulent Socy., 11/168, "Padmalaya", Matunga Rd., Wadala, Bombay 400031.

Cancer Patients Aid Assocn., 5, India House, Opp. G.P.O., Bombay 400001.

Carmel Socy., Bombay, 271, Carter Rd., Bombay 400050.

Cheshire Home, Bombay, Bethlehem House, Mahakali Caves Rd., Bombay 400058. The Cheshire Homes are for the incurably sick and homeless.

Child Welfare, Maharashtra State Council for, 'Shivneri' Annexe, A. G. Bell Marg, Bombay 400006.

Children Socy., Friends of, Advent, 31, Gen. Bhonsle Mrg., Bombay 400021.

Children's Aid Socy., 83, Lady Hardinge Rd., Mahim, Bombay 400016.

Children's Film Socy. (India), Hingorani House, Dr. A. Besant Rd., Worli, Bombay 400018.

Chinmaya Mission, Sandeepany Sadhanalaya, Vihar Rd., Bombay 400076.

Community Aid & Sponsorship Programme (CASP), 175, Dr. D. Naoroji Rd., Bombay 400001. A voluntary social welfare agency operated by Indian Council of Social Welfare, Hind Kusht Nivaran Sangh & Indian Socy. for Rehabilitation.

Community Development in India, Socy. for, 104-B, 14th Rd., Bombay 400050.

Crafts Council of Western India, 59, L. Jagmohandas Mrg., Bombay 400006. An assocn. of craftsmen & designors dedicated to the protection and advancement of the creative aspects of crafts in W. India.

Cultural Freedom, Indian Assocn. for, 148, M. Gandhi Rd., Bombay 400023.

Cultural Organisations of Bombay, Fedn. of, Theosophy Hall, 40, New Marine Lines, Bombay 400020.

Cultural Relations, Indian Council for, Hem-Prabha, Subhas Rd., Bombay 400020.

Dalit Sahitya Sabha, Maharashtra, Janai Sadan, Barve Marg, Kurla East, Bombay 400024.

Depressed Classes Mission Socy. of India, 112, Nagindas Master Rd., Bombay 400023.

Destitutes and Orphans, Bene-Israel Home for, 9A, Wylie Rd., Bombay 400011.

Dharma Socy., Rashtra, Ganga Nivas, 234, Walkeshwar Rd., Bombay 400006.

Diocesan Council, Bombay, 19, Waudby Rd., Bombay 400001.

Diocesan Trust Assocn. Ltd., 111, Gibbs Rd., Bombay 400006.

English-Speaking Union of the Commonwealth, C/o British Council, French Bank Bldg., Homji St., Bombay 400001.

Family Planning Assocn. of India, Bajaj Bhawan, Nariman Pt., Bombay 400021. Has 37 Branches. Activities include edn. & service for family plng., trg. of medical & field personnel ; clinical & field research and programmes in population edn. Affiliated to the Intnl. Planned Parenthood Fedn.

Film Societies of India, Fedn. of, 421, Hind Rajasthan Centre, D. S. Phalke Rd., Bombay 400014.

Folk Arts Foundation, Indian, Cooper Bldg., 1st Flr., Corner of Grant Rd., Bombay 400007.

Free Enterprise, Forum of, Piramal Mansion, 235, Dr. D. Naoroji Rd., Bombay 400001.

"Gate of Mercy" Synagogue, 254, Samuel St., Bombay 400003.

"Giants International" (Voluntary Service Orgn.), Orient Club, Chowpatty Sea Face, Bombay 400007.

Gowrakshak Mandali, Bombay, Fanaswadi, S. Podar Rd., Bombay 400002.

Guruvayurappan Bhakta Samaj, Bombay (Regd.), Shree, 1, Swastik Bldg., 151, Wadala, Bombay 400031.

Hospitality Committee, Bombay, 2-B, Mistry Court, 208, Dinshaw Wachha Rd., Bombay 400020. To bring about closer contacts amongst various nationalities of Bombay ; to foster friendship & cordial understanding between the people of Maharashtra & adjoining States ; to work for national unity, solidarity, internl. amity, peace and national integration.

Hospitality Orgn., Maharashtra Intnl., Kamani Chambers, Nicol Rd., B. Estate, Bombay 400038.

Humanitarian League, Bombay, 123, Mumbadevi Rd., Bombay 400003.

India-South-East Asia Friendship Socy., Dadyseth House, 44, Cawasji Patel St., Bombay 400001.

Indian Culture, Academy of, 2, 'Orion', Omer Park, B. Desai Rd., Bombay 400026.

Indo-American Socy., Kitab Mahal, 5, Raveline St., Bombay 400001.

Indo-Arab Socy., 12, Nagin Mahal, Veer Nariman Rd., Bombay 400020.

Indo-Australian Socy., 2-B. Mistry Court, 208, Dinshaw Wachha Rd., Bombay 400020.

Indo-Canadian Friendship Socy., 2-B, Mistry Court, 208, Dinshaw Wachha Rd., Bombay 400020.

Indo-Fiji Cultural Assocn., 12, Colaba Chambers, Wodehouse Rd., Bombay 400005.

Indo-GDR Friendship Assocn., C/o Purshottam Mathradas & Co. P. Ltd., 23, Sir P.M. Rd., Bombay 400001.

Indo-German Cultural Centre, Max Mueller Bhavan, Prince of Wales Museum Annexe, Bombay 400039.

Indo-German Cultural Socy., Lansdowne House, Lansdowne Rd., Bombay 400039.

Indo-Japanese Assocn., 12, Rampart Row, Bombay 400023.

Indo-Malaysia Friendship Assocn., Dadyset House, 44, Cawasji Patel St., Bombay 400001.

Indo-Mauritius Socy., Ionic A2, Near Telephone Bhavan, Bombay 400005.

Indo-Scandinavian Assocn., 1st Lady Jamshedji Cross Rd., Bombay 400016.

Indo-Soviet Cultural Socy., Syndicate Bank Bldg., Sir P. Mehta Rd., Bombay 400001.

Indo-Swiss Socy., Cama Instt. Bldg., 136, Apollo St., Bombay 400023.

International Co-op., Indian Council of, 12, Colaba Chambers, Wodehouse Rd., Bombay 400005.

Iran League, Navsari Bldg., 240, Dr. D. Naoroji Rd., Bombay 400001.

Ismailia Assocn. for India, Karimabad, Imamwada Rd., Bombay 400009.

Ismailia Helping Socy., 65, J. B. Shah Marg, Bombay 400009.

Jain Assocn. of India, C/o Mahavira Jain Vidyalaya, August Kranti Marg, Bombay 400036.

Jeejeebhoy Parsee Charitable Insttn., Byramjee, 33, Karve Marg, Bombay 400004.

Kalinga Culture, 84, Gitanjali, Arthur Bunder Rd., Bombay 400005.

Kalyan Kendra, Rashtriya, 289/91, Nagdevi St., Bombay 400003.

Kannada Sangha (Regd.), Bombay, 2, Venkatesh Nivas, Bhaudaji Rd., Matunga, Bombay 400019.

Kelavani Mandal, Bombay Vishalnagar, Hatkesh Mandir, 91, Bhuleswar, Bombay 400002.

Keraleeya Samaj, Bombay, "Kerala Bhavanam", K. A. Subramanian Rd., Matunga, Bombay 400019.

Konkan Cultural Assocn., 10, Indian Mercantile Mansion, Opp. Regal, Bombay 400039.

Krishna Consciousness, Intnl. Socy. for, Chand Socy., Juhu, Bombay 400054.

Kusht Nivaran Sangh, Hind, Red Cross Office, 141, Bhagat Singh Rd., Bombay 400001.

Labour Bureau, Bombay, Krishna Niketan, Sonawala Rd., Bombay 400063.

Labour Welfare Board, Maharashtra, Jambori Maidan, Worli, Bombay 400018.

Lady Ratan Tata Memorial Trust, Bombay House, Homi Mody St., Bombay 400023.

Legal Aid Socy., Free, Hamam House, Hamam St., Bombay 400001.

Mahila Arthik Vikas Mahamandal Ltd., Bombay Life Bldg., 5th Flr., 45, Veer Nariman Rd., Bombay

400001. Assists needy helpless women in getting suitable employment. Is engaged in activities like distribution of milk in Bombay, stitching and tailoring, catering, running canteens, supply of condiments, making handicrafts, running MAVIM Udyog Kendra in slum area, sales-cum-display centre at Cross Maidan, imparting trg. in specific skills in general mgmt. and accountancy, mfg. agarbatis at Nagpur.

Mahilashram, Shraddhanand, King's Circle, Matunga, Bombay 400019.

Mai Adherents' Instt., Mai Niwas, Saraswati Rd., Santa Cruz West, Bombay 400054. An instt. of brothers & sisters for the propitiation of God as Universal Mother, through Universal love & service.

Malayalee Samajam, Santa Cruz, 14, Air View Bldg., Vakola, Bombay 400055.

Manav Seva Sangh, Shree, Plot No. 255/257, Sion Rd., Sion (West), Bombay 400022.

Marwadi Sammelan, 111-B, Jayakar Marg, Bombay 400002.

Medico's Cultural Centre, 141, Kailas, Sion West, Bombay 400022.

Moral and Social Hygiene, Assocn. for, Barrack No. 4, Dinshah Wachha Rd., Bombay 400020.

Mothers and Children Welfare Socy., Bombay, No. 10, B.D.D. Chawl, M. N. Joshi Mrg., Bombay 400011.

Mothers' Lineage, Socy. for the Cause of, Plot No. B-2, R-105, Theosophical Colony, Juhu, Bombay 400054.

Music and Arts Socy., Bharatiya, Plot H, Bhaudaji Rd. Extn., Bombay 400022.

Muslim Satyashodhak Mandal, 3/55, Nityanand Nagar, IV, Swami Nityanand Marg, Andheri (East), Bombay 400069.

Mysore Assocn., 393, Bhaudaji Rd., Matunga, Bombay 400019.

Nagpada Neighbourhood House, Sophia Zuber Rd., Byculla, Bombay 400008. *Activities:* Medical & Family Plng. Clinics, Children's Welfare Centre, Emp. Bureau, Working Men's & Women's Hostels, Libraries for adults & children, Creche, Child Guidance Clinic; Youth Counselling Centre, Class for Mentally Retarded Children; Handicrafts Sales Centre, Guest House, Recreation Programmes. *Dir.:* P. R. Gaikwad.

Nehru Centre, Behind Lotus Cinema, Dr. A. Besant Rd., Worli, Bombay 400018.

Objects: To inculcate & promote new social values, secularism, national integration and spread a humane, self-reliant and national outlook on life. The complex has started functioning with Nehru Planetarium. The next phase, Discovery of India Hall, will be a museum of science, history, culture & arts of India.

Nepal Friendship Socy., Bharat, Nepal Traders Agency, 95, Bhandari St., Bombay 400003.

Noise Abatement League, C/o Dr. V. V. Gupte, 19, Sir P. Mehta Rd., Bombay 400001.

North India Assocn., Behind King's Circle Rly. Stn., Off Sion Rd., Bombay 400022.

Panjrapole, Bombay, Bhuleshwar, Bombay 400004.

Parsee Benevolent Insttn., Sir Jamsetjee Jeejeebhoy, 209, Dr. D. Naoroji Rd., Bombay 400001.

Parsi Panchayat Funds and Properties, 209, Dr. D. Naoroji Rd., Bombay 400001.

Parsi Welfare Centre, Dadar, Imperial Mahal, Khodadad Circle, Bombay 400014.

Passengers' and Traffic Relief Assocn., Anand Bhavan, 346, Dr. D. Naoroji Rd., Bombay 400001.

Patidar Stree Samaj, Mumbai, Readymoney Apts., Walkeshwar Rd., Bombay 400006.

Peace & Solidarity Organisation, All India, 55, R. L. Trust Hostel, Opera House, Bombay 400004.

Physical Culture Assocn., Bombay, 22, Nikadwari Le., Bombay 400004.

Prarthana Samaj, Girgaum, Bombay 400004.

Presidency Assocn., Bombay, 107, M. Gandhi Rd., Bombay 400023.

Probation & Aftercare Assocn., Maharashtra State, 15, BIT Block, King's Circle, Bombay 400019.

Property Owners' Assocn., Bansilal Mansion, 11, Homi Mody St., Bombay 400023.

Public Welfare Centre, Fanuswala Bldg., Sankli St., Bombay 400008.

Punjab Assocn., 418, Loha Bhavan, P. D'Mello Rd., Bombay 400009.

Raghavendra Swami Ashram, Shri Guru, 'Guru Ashram', Raghavendra Nagar, Oshiwara, Jogeshwari West, Bombay 400060.

Railway Passengers Conference Assocn., Indian, 23, Bell Building, Sir P. Mehta Rd., Bombay 400001. Assistance to railway passengers in their dealings with the Railways with regard to their obligations to each other; restoration of run-away boys to their parents; elimination of crimes on railways against the person and property of railway passengers; education among railway servants and railway police personnel to discourage corrupt practices. Publishers of "*Rail News*", English fortnightly.

Ramakrishna Mission Ashram, Khar, Bombay 400052.

Ranjan Sandhya International Organisation, 32, Nicol Rd., Kamani Chambers, B. Estate, Bombay 400038. Devoted to social, cultural activities and peace & friendship through intnl. relations.

Ratan Tata Instt., Sir, 35, S. Patkar Rd., Bombay 400007. The Institute helps to partially solve the problem of poverty and distress among Parsee families from the lower income groups, by encouraging women to earn a living through suitable industries.

Red Cross Socy., Indian, (Maharashtra State Branch), 141, Bhagat Singh Rd., Bombay 400001.

Relief Association, Bombay, Cook's Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Religious Amity Centre, Mistry Court, 208, D. Vachha Rd., Bombay 400020.

Religious of Mary Immaculate, Regina Pacis, Seth Motishah Lane, Victoria Gardens, Bombay 400027. 1. Residential Trg. Centre, Club & Emp. Bureau for Houseworkers. 2. Home & School for destitute children. 3. Hostel for working girls students. 4. Regina Pacis Free Dispensary for the poor.

Retarded, Socy. for the Vocational Rehabilitation of the, 298, S. Gandhi Mrg., Bombay 400002.

Retired Persons, Indian Assocn. of, Gohil House, L. J. Rd., Mahim, Bombay 400016.

Sadhu Sangam, Akhil Bharata, 1, Swastik Bldg., 1/151, Rd. No. 9, Wadala, Bombay 400031.

Safety Council, National, Central Labour Instt. Bldg., Sion, Bombay 400022.

Safety First Assocn. of India, Stadium House, Veer Nariman Rd., Bombay 400020. Devoted to conservation of life and property through elimination of accidents at home, on the road & at work; acts as a clearing house of information for accident prevention.

Sahitya Sabha, Maharashtra Dalit, Janai Sadan, Barve Mrg., Kurla East, Bombay 400024.

Sahitya Sangh, Mumbai Marathi, Dr. Bhalerao Mrg., Bombay 400004.

Sai Baba Sansthan Shirdi, Shri, Sai Niketan, Ambedkar Rd., Bombay 400014.

Salesian Socy., Bombay, Don Bosco, Matunga, Bombay 400019.

Sailors' Home Socy., Indian, Masjid Bunder Siding Rd., Bombay 400009.

Samaj Seva Parishad, 141/A, Kalina, Santa Cruz (E), Bombay 400029.

Sankara Mattham, Sri, Telang Cross Rd. No. 3, Matunga, Bombay 400019.

Sanshodhan Mandal, Marathi, Mumbai Marathi Grantha Sangrahalaya, 172, Naigaum Cross Rd., Bombay 400014.

Saraswat Assocn., Kanara, 13, Talmakiwadi, Tardeo Rd., Bombay 400007.

Satya Sai Samiti, Shri, Dharmashetra, Mahakali Caves Rd., Andheri East, Bombay 400069.

Scarcity Relief Committee, Maharashtra, Mantralaya Gymkhana, Bombay 400020.

Scholarship Socy., Taheri, Taheri Manzil, Nesbit Rd., Bombay 400010.

Scottish Orphanage Socy., Bombay, Savarkar Mrg., Bombay 400016.

Scouts and Guides, Bharat, Scout Guide Bhavan, Marine Lines, Bombay 400020.

Sea Cadet Corps, T. S. "Jawahar", Pilot Bunder Rd., Bombay 400005. The Sea Cadet Corps is a voluntary youth organisation whose objects are to give boys & girls aged 12 to 18 sea trg. & such other trg. as will develop in them qualities of good citizenship, and to help boys wishing to make their career at sea achieve their ambition. Has Units at Calcutta, Visakhapatnam, Madras, New Delhi & Cochin. It is recognised by the Govt. of India & has the privilege of using the Blue Ensign.

Secular Socy., Indian, 15, Zapurza, Sahitya Sahavas, Bombay 400051.

Servants of God, Socy. of, Mayfair, 34, Little Gibbs Rd., Bombay 400006.

Servants of India Socy., Sardar V. Patel Rd., Bombay 400004.

Seva Sadan, Gamdevi, Bombay 400007.

Seva Sangh, Lokmanya, Tilak Mandir, Vile Parle (East), Bombay 400057.

Sevak Samaj, Bharat, Narandas Bldg., Sprott Rd., B. Estate, Bombay 400038.

Seventh-Day Adventists, Central India Union of, 16, Club Rd., Bombay 400008.

Shanmukhananda Fine Arts and Sangeetha Sabha, Shri, 292, Flank Rd., Bombay 400022.

Shareholders' Assocn., Bombay, 56, Dalal St., Bombay 400023.

Sindhi Panchayats Fedn., All India, Khorshed Bldg., 1st flr., Sir P. Mehta Rd., Bombay 400001.

Social Action, Church Auxiliary for, Methodist Centre, 21, Club Back Rd., Byculla, Bombay 400008.

Social Hygiene Council, Bombay, 10, Indian Mercantile Mansion, Opp. Regal Cinema, Bombay 400039.

Social Service League, Servants of India Society's Bldg., Sardar V. Patel Rd., Bombay 400004.

Social Welfare, Indian Council of, *Central Office:* 175, D. Naoroji Rd., Bombay 400001. *Exec. Secy.:* S. D. Gokhale.

Social Welfare, International Council of, Regnl. Office for Asia & W. Pacific Regn.: 175, Dr. D. Naoroji Rd., Bombay 400001.

Social Welfare Socy., Khorshed Bldg., Sir P. Mehta Rd., Bombay 400001.

Soviet Culture, House of, 31-D, Deshmukh Mrg., Bombay 400026.

St. Vincent De Paul, Socy. of, Eucharistic Congress Bldg., Convent St., Bombay 400039.

Stree Seva Sangh, Bharatiya, C/o Bharatiya Vidya Bhavan, Chowpatty, Bombay 400007.

Students' Union of India (Bombay), National, Congress Sadan, Azad Maidan, Bombay 400001.

Sur-Singar Samsad, Arun, Narayan Dabholkar Rd., Bombay 400006.

Swastik League, 324A, Vithalbhai Patel Rd., Bombay 400004.

Tamil Sangham, Sion Rd., Bombay 400022.

Tata Charities, Sir Ratan, Bombay House, Homi Mody St., Bombay 400023.

Tata Trust, Sir Dorabji, Bombay House, Homi Mody St., Bombay 400023.

Taxpayers' Assocn. of India, Fort Chambers A, Dean Lane, Bombay 400001.

Tejpal Charities, Goculdas, 7, Bastion Rd., Bombay 400001.

Telephone Subscribers' Assocn., All India, Bell Bldg., Sir P. Mehta Rd., Bombay 400001.

Tenants Assocn., Bombay, 143, Kannamwar Nagar, Bombay 400078.

Theosophical Socy., Blavatsky Lodge, French Bridge, Bombay 400007.

Theosophists, United Lodge of, 40, New Marine Lines, Bombay 400020.

Trees, Friends of the, 148, M. Gandhi Rd., Bombay 400023.

United Kingdom Citizens' Association, Cook's Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Vanita Samaj, Bharatiya, Nair Mahal, Tulsi Pipe Rd., Bombay 400016.

Vanita Vishram, Sardar V. Patel Rd., Bombay 400004.

Vigilance Assocn., Bombay, 124, Dadasaheb Phalke Rd., Bombay 400014. *Objects:* (*a*) To render assistance to the abandoned, destitute, neglected and victimised girls & women; (*b*) to rescue girls and women in moral danger; (*c*) to prevent cruelty to girls and women. It also maintains a Shelter for neglected and destitute girls between 5 & 12 years of all communities.

Visva Yoga Bharati, Vallabhnagar, Borivli, Bombay 400092.

Waddar Samaj Sangh (Regd.), Akhil Bharat, 16, Everest Housing Socy., Sahakar Nagar, Chembur, Bombay 400071. To protect and promote the interests of the unorganised, ignorant & backward minority and weaker sections of several communities in general and Waddar community in particular. Has State Units in A.P., Karnataka, Kerala, Maharashtra, T. Nadu & Goa.

Wadia Charities, N. M., N. M. Wadia Bldg., 123, M. Gandhi Rd., Bombay 400023.

World Affairs, Indian Council of (Bombay Branch), C/o Godrej Bhavan, Home St., Bombay 400001.

World Future Socy., Urban Systems Centre, NITIE, Bombay 400087.

Women's Council, Maharashtra State, Town Hall, Bombay 400023.

Yoga Institute, Santa Cruz, Bombay 400055.

Yoga Socy., Friends of, Sunbeam, S. V. Rd., Jogeshwari, Bombay 400060.

Yogic Self-Culture Socy., 5, Vallabhnagar, Borivli, Bombay 400092.

Young Men's Christian Assocn., YMCA International House, Club Back Rd., Bombay 400008.

Young Men's Hindu Assocn., 141, V. Patel Rd., Bombay 400004.

Young Women's Christian Assocn., 18, Cama Rd., Bombay 400020.

Youth Friends Socy., Bombay, Dina Bldg., A. Kranti Marg., Bombay 400026.

Yuvak Sangha, Mogaveera, 46, Veer Nariman Rd., Bombay 400020.

Zoroastrian Assocn., 16, Horniman Circle, Bombay 400023.

PROFESSIONAL, MEDICAL AND SPORTS

Adi Dravida Mahajana Sangh, Bombay S. Indian, 10, Agasawadi, Bombay 400017.

Advocates' Assocn., Bombay, Small Causes Court, Dhobi Talao, Bombay 400002.

Aeronautical Socy. of India, C/o Air India, Technical Bldg., Old Airport, Bombay 400029.

Agricultural Economics, Indian Socy. of, Esplanade Mansions, M. Gandhi Rd., Bombay 400023.

Agricultural Engineers, Indian Socy. of, 7, Neel Tarang, 208, Savarkar Mrg., Bombay 400016.

Agri-Horticultural Socy., Bharatiya Vidya Bhavan, 4th flr., K. M. Munshi Mrg., Bombay 400007.

Andrology, Bombay Socy. for, C/o Dean, K.E.M. Hospital, Parel, Bombay 400012.

Angling Assocn., Maharashtra State, Club House, Powai Lake, Bombay 400070.

Anthropological Socy. of Bombay, C/o K. R. Kama Oriental Library, 136, Apollo St., Bombay 400023.

Architects, Indian Instt. of, Prospect Chambers Annexe, Dr. D. Naoroji Rd., Bombay 400001.

Architects & Surveyors (London), Incorporated Assocn. of, (India Branch), 24-26, Dalal St., Bombay 400023.

Art & Craft Teachers' Assocn., Bombay, 62, Gujar St., Block 33, Bombay 400003.

Art Socy., Bombay, Jehangir Art Gallery, Bombay 400039.

Automotive Racing Club Ltd., Indian, Liberty Bldg., 41-42, Marine Lines, Bombay 400020.

Ayurved Prachar Sanstha, Ayurved Coll. Bldg., Subhas Rd., Bombay 400002. Promoting public health and relieving ailments by ayurvedic & other systems of medicine.

Ayurvedic and Unani Systems of Medicine, Maharashtra Board of, 144, M. Gandhi Rd., Bombay 400001.

Badminton Assocn., Maharashtra State, Brabourne Stadium (North Stand), Bombay 400020.

Ball Badminton Assocn., Maharashtra State, 12/289 (East), J. Yagnik Marg, Sion East, Bombay 400022.

Bank Depositors' Assocn., All India, C/o Forum of Free Enterprises, 235, Dr. D. Naoroji Rd., Bombay 400001.

Bankers, Indian Instt. of, State Bank Bldg., Apollo St., Bombay 400023.

Bar Council of Maharashtra, High Court Extn., Bombay 400032.

Basketball Assocn., Maharashtra State, 10/200, Kailas Kunj, Wadala, Bombay 400031.

Billiards Assocn., Maharashtra State, C/o Islam Gymkhana, Subhas Rd., Bombay 400002.

Bioscientific Assocn., Indian, Instt. of Science, Madam Cama Rd., Bombay 400032.

Bridge Assocn., Bombay Contract, — Bridge Association, Maharashtra, C/o Sectt. of Bombay Sporting Assns., Brabourne Stadium (North Stand), Bombay 400020.

Bridge Fedn. of India, Brabourne Stadium (North Stand), Bombay 400020.

Cancer Socy., Indian, Dr. E. Borges Mrg., Parel, Bombay 400012. Scientific investigation of the cause, prevention & control, public and professional edn. in latest methods of detection, diagnosis & treatment of Cancer; sponsoring of research; establishment of free detection centres throughout India, establishing intnl. co-opn. in research, encouraging visiting professorships, awarding scholarships & fellowships in Cancer Cytology, Chemotherapy & Rehabilitation; giving relief & rehabilitation to indigent Cancer patients; donating apparatus to hospitals & research institutions; establishing population-based Cancer Registries; undertaking public edn. in the facts about Cancer by various means including Cancer Exhibitions, films & T.V. shorts, etc. Publication: The Indian Journal of Cancer — Quarterly. 40 branches & affiliates throughout India.

Cardiological Socy. of India, C/o Dr. B. K. Goyal, Lotus Chambers, New Marine Lines, Bombay 400020.

Carrom Assocn., Maharashtra State, Brabourne Stadium (North Stand), Bombay 400020.

Chartered Accountants of India, Instt. of, (W. Regnl. Council), 27, Cuffe Parade, Bombay 400005.

Chartered Accountants Socy., Bombay, 69-71, Ghogha St., Bombay 400001.

Chemical Socy., Indian, (Bombay Branch), Institute of Science, Cama Rd., Bombay 400032.

Cine Art Directors, Assocn. of, Ranjit Studio, D. Phalke Rd., Bombay 400014.

Cine Artists Assocn., Famous Cine Bldg., Jagtap Marg, Bombay 400011.

Clean Environment, Socy. for, Garden Resort, 606, Sion-Trombay Rd., Chembur, Bombay 400071.

Commercial Artists' Guild, India House, 4th Flr., Fort St., Bombay 400001.

Company Secretaries of India, Instt. of, Jolly Maker Chambers No. 2, Nariman Pt., Bombay 400021.

Computer Socy. of India, C/o Instt. of Engrs., 15, Haji Ali Park, Bombay Central, Bombay 400034.

Consumer Guidance Socy. of India, Hutment J, Mahapalika Marg, Bombay 400001.

Consumers Co-op. Fedn. Ltd., Maharashtra, Raj Chambers, 3rd Flr., 87-A, Broach St., Bombay 400009.

Consumers Fedn. Limited, National Co-op., Suresh Bhavan, Chowpatty, Bombay 400007.

Co-op. Union, Maharashtra State, 1, Bank St., Bombay 400023.

Costs and Works Accountants of India, Instt. of, Rohit Chambers, Ghogha St., Bombay 400001.

Cricket Assocn., Bombay, Wankhede Stadium, Bombay 400020.

Dental Council, Maharashtra State, Swadeshi Mills Estate, M. Parmanand Marg, Bombay 400004.

Diabetic Assocn. of India, Maneckji Wadia Bldg., 127, M. Gandhi Rd., Bombay 400023.

Electronics & Telecommunication Engrs., Insttn. of, (Bombay Centre), City Telephone Exchange Bldg., H. Somani Marg, Bombay 400001.

Engineering and Commerce, Indian Socy. of, Commonwealth Bldg., Oak Lane, Bombay 400001.

Engineers, Architects & Townplanners' Assocn., Practising, C/o G. L. Raheja & Associates, Rampart House, Rampart Row, Bombay 400023.

Engineers, Bombay Socy. of Model, 23/24, Noble Chambers, Parsi Bazar St., Bombay 400001.

Engineers (India), Insttn. of, 15, Haji Ali Park, Clerk Rd., Bombay 400034.

Engineers (India), Insttn. of Mechanical, 29, Walchand Hirachand Marg, Bombay 400039.

Estate Agents' Assocn. of India, Sheel Chambers, Cawasji Patel St., Bombay 400001.

Film Directors' Assocn., Indian, 501, "Navin Asha", D. Phalke Rd., Bombay 400014.

Film Exporters Assocn., Indian, 4-E, Naaz Bldg., Dr. D. Bhadkamkar Marg, Bombay 400004.

Film Fedn. of India, 91, Walkeshwar Rd., Bombay 400006.

Film Producers' Council, All India, AFI Bldg., Dhobi Talao, Bombay 400002.

Football Assocn., Western India, Cooperage Football Ground, Bombay 400020.

Football Fedn., All India, 92, Dr. D. Naoroji Rd., Bombay 400001.

Heart Disease & Rehabilitation, Socy. for the Prevention of, India House, No. 2, Kemp's Corner, Bombay 400036.

Hockey Association, Bombay, D. Rd., Bombay 400020.

Homoeopathic Association, Bombay, 311, Tardeo Rd., Nana Chowk, Bombay 400007.

Homoeopathic Medical Assocn., Maharashtra State, Vijayanagar, Dadar, Bombay 400028.

Homoeopathic Physicians (Regd.), Association of, Ashwin House, K. A. Subramaniam Rd., Bombay 400019.

Income-tax Consultants, Chamber of, Sunbeam Chambers, 7, Marine Lines, Bombay 400020.

Industrial Engineering, Indian Insttn. of, Nitie Campus, Vihar Lake Road, Bombay 400087. Founded in 1957. A non-profit making national body for the profession of Indl. Engg. consisting of over 5,000 members drawn from industry, Govt., utilities, business, higher edn., etc., with the national hqrs. at Bombay & 15 Chapters located in the industrial cities. Conducts a professional Examination known as Graduateship Examination which is recognised by the Central Govt. on par with a Bachelor's Degree in Indl. Engg.

Insurance Brokers Assocn., Bombay, 19, Homi Mody St., Bombay 400023.

Insurance Surveyors & Adjusters, Instt. of, Lakshmi Bldg., Sir P. Mehta Rd., Bombay 400001.

Journalists, Bombay Union of, Prospect Chambers Annexe, Dr. D. Naoroji Rd., Bombay 400001.

Kidney Foundation (India), National, C/o Warden Road Polyclinic, Ben Nevis, B. Desai Marg, Bombay 400026.

Labour Management, National Instt. of, M. G. Textile Technical School Premises, Parel, Bombay 400012.

Law Instt. Indian (Maharashtra State Unit), C/o Little & Co., Central Bank Bldg., M. Gandhi Rd., Bombay 400023.

Law Socy. Bombay Incorporated, High Court New Bldg., Bombay 400032.

Management Assocn. Bombay, Army & Navy Bldg., Mahatma Gandhi Rd., Bombay 400023.

Management Consultants, Council of, Krishna Kunj, S. Bapat Mrg., Bombay 400016.

Management Consultants' Assocn. of India, C/o Sharp & Tannan Associates, 87, Jolly Maker Chambers No. 1, Nariman Pt., Bombay 400021.

Marine Engineers, Instt. of, Nirmal, Nariman Point, Bombay 400021.

Marine Technologists, Instt. of, C/o Ericson & Richards, 32, Nicol Rd., B. Estate, Bombay 400038.

Maritime Board, National, Mackinnon Mackenzie Bldg., B. Estate, Bombay 400038.

Maritime Union of India, 204, Dr. D. Naoroji Rd., Bombay 400001.

Master Mariners of India, Company of, C/o Ericson & Richards, 32, Nicol Rd., B. Estate, Bombay 400038.

Materials Management, Indian Assocn. of, (Hqrs.), Cecil Court, Lansdowne Rd., Bombay 400039.

Mathematical Socy., Indian, C/o Deptt. of Mathematics, I.I.T., Powai, Bombay 400076.

Medical Assocn., Indian, (*Bombay Branch*), Keshavrao Khadye Marg, Bombay 400034.

Medical Council, Maharashtra, Swadeshi Mills Estate, M. Parmanand Marg, Bombay 400004.

Medical Socy. Ltd., Bombay Co-op., Ganjawala Bldg., Tardeo Rd., Bombay 400034.

Medical Union, Bombay, Blavatsky Lodge Bldg., French Bridge, Chowpatty, Bombay 400007.

Medical Women in India, Assocn. of, IMA Bldg., Keshavrao Khadye Mrg., Bombay 400034.

Mental Hygiene, Indian Council for, and **Indian Instt. of Mental Health & Human Relations,** Cambatta Chambers, 42, Maharshi Karve Rd., Bombay 400020.

Mentally Ill, Assocn. for the Friends of the, Opp. Chawl No. 5, Next to Police Stn., Dolisle Rd., Bombay 400011.

Natural History Socy., Bombay, Prince of Wales Museum Compound, Bombay 400039.

Nursing Council, Maharashtra, Gresham Assurance Bldg., Sir P. Mehta Rd., Bombay 400001.

Obstetric & Gynaecological Societies of India, Purandare Griha, 31/C, Dr. N. A. Purandare Mrg., Bombay 400007.

Offshore Engg. & Underwater Technology of India, Socy. for, 91/92, Bajaj Bhavan, Nariman Pt., Bombay 400021.

Oil Technologists' Assocn. of India, Deptt. of Chemical Technology, Matunga Rd., Bombay 400019.

Olympic Assocn., Maharashtra State, Brabourne Stadium (North Stand), Bombay 400020.

Ophthalmological Socy., All India, Sarojini Sadan, Congress House, Bombay 400004.

Oral & General Health, Indian Socy. for the Propagation of, C/o Dr. Fali S. Mehta, India House, Cumballa Hill, Bombay 400036.

Patrakar Sangha, Mumbai Marathi, Patrakar Bhavan, Mahapalika Mrg., Bombay 400001.

P. E. N. All India Centre, Theosophy Hall, 40, New Marine Lines, Bombay 400020. Indian Branch of the Intnl. P.E.N. Club of leading poets, playrights, editors, essayists, novelists.

Pharmacy Council, Maharashtra State, 5, Military Square Lane Corner, Medows St., Bombay 400023.

Philatelic Socy. of India, K. D. Dinshah, Dharwar Bldg., Zorastrian Estate, Tardeo Rd., Bombay 400007.

Physicians of India, Assocn. of, 21, Karve Mrg., Bombay 400004.

Plastics & Rubber Instt. — Indian Section (Plastics), C/o Dr. S. K. Datta, Nocil T.S. Laboratory, Mafatlal Centre, Nariman Point, Bombay 400020.

Press Assocn. of India, 196B, Gaiwadi, Girgaum, Bombay 400004.

Press Guild of India, Majestic Hotel, Bombay 400039.

Production Engineers, Insttn. of, Churchgate House, 32, V. Nariman Rd., Bombay 400001.

Public Relations Socy. of India, Army & Navy Bldg., Rear Mezzanine Flr., Hope St., Bombay 400023.

The Society has nine regional chapters in Bombay, Delhi, Ahmedabad, Kanpur, Calcutta, Madras, Hyderabad, Bangalore, and Cochin and a national council as the All India body.

Radiologists Assocn., Indian, 534, Sardar Patel Rd., Bombay 400007.

Rheumatism Assocn., Indian, Commerce Centre, J. Dadajee Rd., Bombay 400034.

Rifle Assocn., Maharashtra State, Municipal Rifle Range, Worli Sea Face, Bombay 400025.

Sales Tax Practitioners' Assocn., Mohatta Mkt. Bldg., Paltan Rd., Bombay 400001.

Sancharini, 4, Kumar Apartments, 1st Flr., 81A, Linking Rd., Bombay 400054. An assocn. of artistes, art lovers, cultl. orgns., art critics and scholars interested in the preservation, promotion & propagation of arts, specially performing arts.

Seafarers' Fedn., United, Podar Chambers, Donde Marg, Bombay 400012.

Seafarers of India, National Union of, 4, Goa St., Bombay 400001.

Seamen's Socy., Royal Bombay, Nicol Rd., B. Estate, Bombay 400038.

Secondary Teachers' Assocn., Greater Bombay, Office No. 4, 13th Flr., 3, Navjeewan Socy., Bhadkamkar Mrg., Bombay 400008.

Secretaries, Instt. of, Lentin Chambers, Dala St., Bombay 400023.

Surgery, Rehabilitation & Research, Socy. for Reconstructive, C/o Tata Deptt. of Plastic Surgery, J. J. Group of Hospitals, Bombay 400008.

Table Tennis Assocn., Maharashtra State, Brabourne Stadium, Bombay 400020.

Tennis Assocn., Maharashtra State Lawn, Cooperage, Bombay 400020.

Tourism Council, International, Darya Bldg., 375, Dr. D. Naoroji Rd., Bombay 400001.

Trade Centre, Indian International, 59, Jolly Maker Chambers I, Nariman Point, Bombay-400021. *Branch :* 310, Jolly Bhavan No. 2, New Marine Lines, Bombay 400020. Specialised in Trade Promotion, Trg., Market-Research, Intnl. Business Consultancy Services & Publications. Organises Post-Graduate Diploma Course in Export Business Management (DEBM) & Diploma Course in Intnl. Mktg. Management (DIMM). Also conducts short-term trg. courses in Intnl. Mktg., etc. *Branches :* New Delhi & Bangalore.

Tuberculosis Assocn., Maharashtra State Anti-, T. B. Hospital Compound, J. Wadia Rd., Sewree, Bombay 400015.

Vacuum Socy., Indian, Technical Physics Divn., Bhabha Atomic Research Centre, Trombay, Bombay 400085.

To promote, foster and encourage the growth of vacuum sciences, techniques and applications in the country, and standardize the development & manufacture of various components and systems through I.S.I. and to render technical advice.

Welding, Indian Instt. of, C/o Indian Oxygen Ltd., L. B. Shastri Mrg., Bombay 400086.

Associations in Maharashtra Districts

COMMERCIAL

Acrylic Sheets Mfrs. Assocn., S. B. Plastic Ind. Compd., Netivali Village, Poona Link Rd., Kalyan 421301.

Aluminium Industries, Assocn. of Small Scale, 1243/80, Shivaji Udyamnagar, Kolhapur 416002.

Automobile Assocn., Western India, 7, Moledina Rd., Pune 411001.

Bee Keepers Assocn., All India, 817, Sadashiv Peth, Datar Wada, Pune 411030.

Bidi Industry Assocn., Solapur, Post Box 12, Solapur 413001.

Book Publishers Assocn., Maharashtra School, 2040, Sadashiv Peth, Tilak Rd., Pune 411030.

Booksellers Assocn., Pune, C/o Hindustan Sahitya, 309, Shaniwar Peth, Pune 411030.

Brass and Copper Merchants Assocn. Ltd., New 246 Raviwar Peth, Old 167 Guruwar Peth, Pune 411002.

Cotton Merchants Assocn., Vidarbha, Cotton Mkt., Akola 444001.

Engineering Assocn., Kolhapur, Shivaji Udyam Nagar, Kolhapur 416001.

Engineering Co-op. Socy., Ltd., Multipurpose, Industrial Estate, Sangli 416416.

Fabricators' Assocn., (S.S.I.), ICEM Compound, Wagle Estate, Thane 400604.

Grape Growers Assocn., (Maharashtra Rajya Draksha Bagaitdar Sangh) 17/1, Shivajinagar, Pune 411005.

Hosiery Mfrs. Assocn., Poona, 264, Shanwar Peth, Pune 411002.

Hotel Owners Assocn., Nagpur, Ram Mandir Galli, Ruikar Rd., Nagpur 440002.

Manufacturers' Assocn., Deccan, " Rose Cottage", Madhavnagar Rd., Sangli 416416.

Manufacturers' Assocn., Kalyan Ambarnath, New Municipal Bldg., Kalyan 421301.

Manufacturers' Assocn., Thane, T.M.A. House, P-6, Main Rd., Wagle Indl. Estate, Thane 400604.

Mills Assocn., Maharashtra Mofussil, C/o Empress Mills, No. 5, Nagpur 440008.

Mineral Industry Assocn., 'Mineral House', Nagpur 440001.

Mining Assocn., M. P. & Vidarbha, Post Box No. 8, Nagpur 440001.

Mudrak Sangh, Nagpur, Buty Rd., Sitabuldi, Nagpur 440002.

Oil Industry Assocn., All India Non-Edible, 'Taru Sneha', 1153, Ganeshkhind Rd., Pune 411016.

Oil Merchants' Assocn., Maskasath, Itwari, Nagpur 440002.

Papers Traders Assocn., C/o Mahesh Paper Mart, New Itwari Rd., Nagpur 440002.

Paper Traders' Assocn., Poona, 495, Shanwar Peth, Pune 411030.

Pharmaceutical Assocn., Indian, Deptt. of Pharmaceutical Sciences, Nagpur Univ., Nagpur 440001.

Pharmaceutical Assocn., Indian, Sai Krupa, 122, Bhawani Peth, Pune 411002.

Powerloom Co-op. Socy. Fedn., Solapur Dist., 489, Sakhar Peth, Solapur 413002.

Powerloom Weavers' Co-op. Assocn. Ltd., Ichalkaranji, Ward No. 9, H. No. 513, Ichalkaranji 416115.

Press Owners' Assocn. Ltd., Poona, 'Mudrak Bhavan', 1078, Sadashiv Peth, Pune 411030.

Rubber Ind., Assocn., Poona, Auto Steel Ind., C-2-1, Technician Block, Bhosari Indl. Estate, Pune 411026.

Salt Merchants' & Shilotries Syndicate, Uran, Uran 400702, Kolaba Dist.

Serum Instt. of India, 253, M. Gandhi Rd., Pune 411001.

Small Industries Devpt. Instt., Agri. College Compound, Pune 411005. State Govt. agency under the Dte. of Industries.

Spices and Oilseeds Exchange Ltd. Wakhar Bagh, P. No. 162, Sangli 416416. The only Exchange in India recognised for control & regulation of forward trading in turmeric.

Spun Pipe Mfrs., Assocn. of India, 'Shradha', Opp. Octroi Naka, Satara Rd., Pune 411009.

Timber Merchants Assocn., Nagpur, Bagadganj, Nagpur 440008.

Timber Merchants and Saw Mill Owners Assocn., 5-A, New Timber Mkt., Pune 411002.

Udyam Co-op. Socy. Ltd., Kolhapur, Shivaji Udyam Nagar, Kolhapur 416002.

Veterinary Biological Products Instt. of, Ganeshkhind Rd., Pune 411007. A State Govt. Instt. manufacturing 17 biological products against various epizootic in cattle, sheep, goats, dogs & poultry.

Watch Dealers Assocn., Pune, 240, Budhwar Peth, Pune 411002.

CULTURAL, SOCIAL AND PROFESSIONAL

Altrusa Club (Assn. of Women in Profession & Business), C/o Dr. (Miss) S. Iyengar, L. A. D. Coll. for Women, Seminary Hills, Nagpur 440006.

Anath Vidyarthi Griha, Ahmadnagar 414001.

Architects, Engineers, Surveyors Assocn., 'Indraprastha', 1134/1, Shivaji Nagar, Pune 411005.

Badminton Assocn., Maharashtra State, Post Box 731, Sahyadri Sadan, Tilak Rd., Pune 411030.

Balkan-ji-Bari, Bapu Gaon (Via Dahanu Rd.) 401602, Thane Dist.

Beauty Without Cruelty (India Branch), 4, Prince of Wales Drive, Wanowrie, Pune 411001.

Carrom Assocn., Vidarbha, C/o Rai Carrom Club, Ganjakhet, Nagpur 440001.

Chartered Accountants of India, Instt. of, C/o C. R. Sagdeo & Co., Jail Rd., Nagpur 440012.

Chartered Accountants of India, Instt. of, C/o M/s. Bhide, Palnitkar & Shah, 1025, Sadashiv Peth, Pune 411030.

Dietetics Service, All India Assocn. of, C/o Miss Y. V. Mishra, Women's Polytechnic & Research Centre, Seminary Hills, Nagpur 440006.

Engineers (India), Insttn. of, North Ambazari Rd., Nagpur 440001.

Engineers (India), Insttn. of, 1332, Shivajinagar, Jangli Maharaj Rd., Pune 411005.

France, Assocn. of the Friends of, 1015/3, Janawadi Rd., Pune 411016.

Free Enterprise, Forum of, 69, Kasbapeth, Pune 411011.

Giri Bhraman, 2145, Sadashiv Peth, Pune 411030.

Horticultural Devpt. Assocn., Maharashtra State, Horticultural Socn., Coll. of Agriculture, Pune 411005.

India Foundation, 595, Budhwar Peth, Pune 411002. Grants of scholarship & financial aid, gifts or loans, to students of outstanding merit for edn. in India & abroad, irrespective of caste, creed, religion or language.

Industrial Museum — Mahatma Phule Vastu Sangrahalaya, Ghole Rd., Pune 411004.

Irrigation & Devpt. Project Socy. (Regd)., Verala, Laxmi Nivas, Ambarai Rd., Sangli 416416.

Leprosy Relief Assocn., Ahmadnagar Dist., Ahmadnagar 414001.

Linguistic Socy. of India, Deccan College Postgraduate & Research Instt., Pune 411006.

Literature and Culture, Maharashtra State Board for, Viswakosha Unit Office, C/o Prajna Pathshala, Wai 412803.

Management Assocn., Nagpur, C/o Nag-Vidarbh Chamber of Commerce, Temple Rd., Nagpur 440001.

Management Assocn., Poona, 1332, Shivajinagar, Pune 411005.

Management Consultants, Assocn. of, 189, Sadashiv Peth, Natu Baug, Pune 411030.

Medical Assocn., Ahmadnagar, Wadia Park Ground, Ahmadnagar 414001.

Medical Assocn., Indian, 992, Shukrawar Peth, Tilak Rd., Pune 411002.

Medical Assocn. of India, Christian, Christian Council Lodge, Nagpur 440001.

Medical Centre, Miraj, Wanless Hospital, Miraj 416410.

Pathologists, Indian Assocn. of, Deptt. of Pathology, Miraj Medical College, Miraj 416410.

Philosophical Assocn., Indian, P.O. Vidarbha Mahavidyalaya, Amravati 444601.

Productivity Council, Pune Divisional, Maharatta Chamber Bhavan, Tilak Rd., Pune 411002.

Satyaniketan, Rajur 422604, Akola Dist.

Sciences, Maharashtra Academy of, C/o Dept. of Geology, Univ. of Poona, Ganeshkhind, Pune 411007.

Science, Maharashtra Assocn. for the Cultivation of, Law College Rd., Pune 411004.

Secular Socy., Indian, 'Aboli', 850/8A, Shivajinagar, Pune 411004.

Servants of India Socy., Pune 411004. The Society's work is primarily political but it also does tribal & backward classes welfare work in the Mirzapur, Allahabad & Nainital Dists. (U.P.), Tamil Nadu, A.P., Orissa & Kerala on a considerable scale.

Seva Sadan Socy., Poona, 613-614, Sadashiv Peth, Pune 411002.

Sharada Udyog Mandir, Near Jaystambha, Amravati 444601. A charitable & indl. institution to help widows & poor women by teaching handicrafts, tailoring, embroidery, etc.

Students' Welfare Assocn., 1182/1, Fergusson College Rd., Pune 411005.

Sugar Technologists Assocn., Deccan, Opp. Shivajinagar Bus Stand, Shivajinagar, Pune 411005.

Vidyarthi Griha, Pune, 1786, Sadashiv Peth, Pune 411030.

Women in India, National Council of, 'Lakaki', Model Colony, Pune 411016.

Youth Hostels' Assocn. of India, 87, West Park Rd., Dhantoli, Nagpur 440001.

MANIPUR

CULTURAL, SOCIAL AND PROFESSIONAL

Family Planning Assocn. of India, Keishamthong Bazar, Imphal 795001.

Red Cross Socy., Indian, 114/D, M. Gandhi Avenue, Imphal 795001.

Rural Devpt. Organisation, Lamsang Bazar, Imphal 750001.

TB Control Centre, Lamphelpat, Imphal 795004.

MIZORAM

COMMERCIAL

Small Scale Industries Assocn., Mizoram, Cantonment Rd., Aizwal 796001.

ORISSA

COMMERCIAL

Exercise Books, All Orissa Assocn. of Mfrs. of, Basulishi, Buxi Bazar, Cuttack 753001.

Forest Contractors & Timber Merchants Assocn., Sambalpur 768001.

Glass Mfrs. Assocn., Orissa, C/o Shree Durga Glass Works, Barang 754005 (Cuttack Dist.).

Handicrafts Assocn., Cuttack, Cuttack 753001.

Industries Assocn., Dhenkanal, Dhenkanal 759001.

Marketing Socy. Ltd., Orissa State Co-op., Station Rd., Bhubaneswar 751001.

Millowners Assocn., Orissa, College Square, Cuttack 753003.

Motor Assocn., Cuttack, Dargha Bazar, Cuttack 753001.

Paper Dealers Assocn., Orissa, C/o Rameswarilal Muralidhar, Banka Bazar, Cuttack 753002.

Pharmaceutical Assocn., Indian, Berhampur 760001, Ganjam Dist.

Salt Mfrs. Assocn., Orissa, Nayasarak, Cuttack 753002

Small Scale Industries Assocn., Dist., Ind. Estate. Rourkela 769004.

Small Industries Assocn., Ganjam Dist., Station Rd., Berhampore 760001.

Small Industries Assocn., Jharsuguda, B2, Ind. Estate, Jharsuguda 768202.

Small Scale Industries Assocn., Orissa, Ind. Estate, Cuttack 753010.

Textile Merchants Assocn., Junaliapatti, Cuttack 753009.

Tyre & Accessories Dealers Assocn., Fedn. of Orissa, Cantonment Rd., Cuttack 753001.

CULTURAL, SOCIAL AND PROFESSIONAL

Engineers (India), Insttn. of, Sachivalaya Mrg., Unit IV, Bhubaneswar 751001.

Medical Assocn., Indian, S.C.B. Medical Coll., Cuttack 753007.

Productivity Council, Cuttack, Industrial Estate, Cuttack 753010.

Red Cross Socy., Indian, Red Cross Bhavan, Bhubaneswar 751007.

Rice Research Workers, Assocn. of, Central Rice Research Instt., Cuttack 753006.

Sahitya Akademi, P.O. Box 56, Bhubaneswar 751001.

Theosophical Fedn., Talatelenga Bazar, Cuttack 753001.

Tribal Devpt. Co-op. Corpn. of Orissa Ltd., P.O. Box No. 148, 18, Forest Park, Bhubaneswar 751009.

PONDICHERRY

CULTURAL, SOCIAL & PROFESSIONAL

World Union, Sri Aurobindo Ashram, Pondicherry 605002.

PUNJAB

COMMERCIAL

Auto Spares & Accessories Mfrs. Assocn., 983, Preet Nagar, Jullundur City 144001.

Banian Mfrs. Assocn., Chawal Bazar, Ludhiana 141001.

Bolts & Nuts Mfrs. Assocn., Ind. Area, Sodal Rd., Jullundur 144004.

Booksellers Assocn., Chandigarh, SCO No. 3, Sector 17E, Chandigarh 160017.

Builders' Assocn. of India, 154, Sector 9B, Chandigarh 160017.

Business Management Assocn., Punjab, Tanda Rd., Jullundur City 144001.

Co-operative Supply and Marketing Fedn. Ltd., P. Box No. 67, Chandigarh 160017.

Cottage Industries Assocn., Harban Lal Bldg., Bazar Jallianwalla Bagh, Amritsar 143001.

Cotton Cloth Mfrs. Assocn., Punjab, 19, Model Town, Amritsar 143001.

Cotton & Grain Merchants Assocn., Post Box No. 7, Abohar 152116.

Cycle Parts Mfrs. Assocn., East Punjab, 12-R, Ind. Area B, Ludhiana 141003.

Cycle & Parts Mfrs. Assocn., United, Miller Ganj, Gill Rd., Ludhiana 141003.

Cycle Parts Suppliers' Assocn., Ludhiana, New Cycle Mkt., Gill Rd., Ludhiana 141003.

Engineering Assocn., Fedn. of, Tanda Rd., Jullundur City 144001.

Engineering Assocn. of Northern India, G. T. Rd., Batala 143505, Gurdaspur Dist.

Engineering Industries Assocn., C/o Bharat Printing Machine Mfg. Co., G.T. Rd., Mall Mandi, Amritsar 143001.

Engineering Industry, Assocn. of Indian, (Punjab Regd. Office), Tanda Rd., Jullundur 144001)

Foodgrain Dealers Assocn., All Punjab, Kesar Ganj, Ludhiana 141003.

Foundry Assocn. of Punjab, Tanda Rd., Jullundur City 144001.

Hand Tool Mfrs. Assocn., WG-246, Islamabad, Jullundur 144004.

Handloom Assocn., Fedn. of, Katra Ahluwalia, Amritsar 143001.

Handloom Shoddy Weavers & Processors Assocn. Ltd., 812 II-18, Katra Ahluwalia, Amritsar 143001.

Hosiery Industry Fedn. (Regd.), Sat Sang Ghar Rd., Civil Lines, Ludhiana 141001.

Hosiery Machine Mfrs.' Assocn., 461/62, Industrial Area B, Miller Ganj, Ludhiana 141003.

Hosiery Mfrs. Assocn., Beri Rd., Civil Lines, Ludhiana 141001.

Hosiery Mfrs. Assocn., United, Arya Samaj Mandir, Dal Bazar, Ludhiana 141001.

Hosiery Mfrs. Export Organisation, Mai [illegible] Kaur Sarai, Civil Lines, Ludhiana 141003.

Industrial & Commercial Employers, Chamber of, Civil Lines, Ludhiana 141003.

Industries & Commerce Assocn., Punjab, [illegible] Krishna Mkt., Amritsar 143001.

Industry and Commerce, Punjab Fedn. of, [illegible] Hall Gate, Amritsar 143001.

Interlock & Skinner Cloth Mfrs. Assocn., New, 8, Khud Mohalla, Ludhiana 141001.

Iron Syndicate Assocn., Gobindgarh, [illegible]garh 147301.

Knitters Assocn., Amritsar, Hiro Rd., Ram T[illegible], Amritsar 143001.

Knitwear Assocn., Nylon, Brahmapuri, Ludhiana 141001.

Machine Tools Makers Guild, Ludhiana, 510, Deep Rd., Ind. Area B, Ludhiana 141003.

Manufacturers' Organisation, All India, C/o Pearl Hosiery Mills, Sukhram Nagar, Ludhiana 141003.

Master Printers' Assocn., Tej Press Bldgs., Katra Sher Singh, Hall Bazar, Amritsar 143001.

Motor Parts Mfrs. Assocn., Ludhiana, 21, Roshan Mkt., Millerganj, Ludhiana 141003.

Motor Parts Traders Assocn., Punjab, Nehru Garden Rd., Jullundur 144001.

Newspapers Assocn., All India Small, 3028, Sector 19-D, Chandigarh 160019.

Nut Bolt Mfrs. Assocn., Ludhiana, B-XXI-663, Pratap Nagar, Basant Rd., Ludhiana 141003.

Oil Expeller Mfrs. Assocn., G.T. Rd., Millerganj, Ludhiana 141003.

Paper Merchants' Assocn., Punjab, Guru Bazar, Amritsar 143001.

Pharmaceutical Assocn., Indian, Deptt. of Pharmaceutical Sciences, Punjab Univ., Chandigarh 160014.

Printers Assocn., Chandigarh, 3028, Sector 19-D, Chandigarh 160019.

Productivity Council, National, 1037, Sector [illegible]-B, Chandigarh 160019.

Publishers Assocn., Punjabi, 354, Purani Ka[illegible], Jullundur City 144001.

Radio Trade Fedn., Punjab, Railway Rd., Jullundur 144001.

Re-rollers Council of India, Guru Nanak [illegible], Mandi Gobindgarh 147301.

Sewing Machine Dealers' Assocn., Lakhar [illegible], Ludhiana 141008.

Sewing Machine Industries Assocn., Punjab, C/o Gobind Ram & Sons, 502, Industrial Area B, Ludhiana 141003.

Sinker & Interlock Cloth Assocn., Islamia [illegible] Rd., Ludhiana 141008.

Small Inds. Assocn., Chandigarh, 245, [illegible] Area, Chandigarh 160017.

Steel Re-rollers Assocn., Ram Bhavan, G.T. [illegible], Mandi Gobindgarh 147301.

Shoddy Weavers & Processors Assocn., [illegible] Bazar Bikanerian, Amritsar 143001.

Textile Mfrs.' Assocn., 4, Diwan C. Mehra Rd., Amritsar 143001.

Warp Knitting Industry Assocn., Punjab, Opp. Kashmir House, 1-C, Court Rd., Amritsar 143001.

Water Fittings Mfrs.' Assocn., All India Non-Ferrous, Tanda Rd., Jullundur City 144001.

Woollen Mfrs. Assocn. Ltd., Amritsar Small Scale, Shastri Mkt., Bazar Sabunia, Amritsar 143001.

CULTURAL, SOCIAL AND PROFESSIONAL

Chartered Accountants of India, Instt. of, Koth No. 2, Sector 18A, Chandigarh 160017.

Chartered Accountants of India, Instt. of, C/o S. Bhushan & Co., Punjab National Bank Bldg., Civil Lines, Ludhiana 141003.

Engineers (India), Insttn. of, Madhya Mrg., Sector 19-A, Chandigarh 160019.

Family Planning Assocn. (Punjab Branch), Red Cross Bhavan, Madhya Marg, Sector 16/A, Chandigarh 160017.

Khadi Sewa Sangh, Kazi Kothi, Jullundur 144001.

Medical Assocn., Indian, 3343, Sector 23-D, Chandigarh 160017.

Motion Picture Assocn., Northern India, 48, Pratap Rd., Jullundur 144001.

Red Cross Socy., Indian, (Punjab State Branch), Red Cross Bldg., Sector 16-A, Chandigarh 160017.

Sahitya Akademi, Punjabi, Punjabi Bhavan, Ludhiana 141003.

Shiromani Gurudwara Parbandak Committee, Teja Singh Samudri Hall, Amritsar 143001.

Surgeons of India, Assocn. of, C/o Dr. B. C. Bapna, Deptt. of Urology, Post Graduate Instt. for Medical Research & Edn., Chandigarh 160017.

TB Assocn. of Punjab, TB Centre, Patiala 147001.

RAJASTHAN

COMMERCIAL

Bidi, Matches, Cigarettes Vyapaar Assocn., Dhanmandi, Udaipur 313001.

Builders' Assocn. of India, 25, Bhagwandas Rd., Jaipur 302001.

Bullion Assocn. Ltd., Johari Bazar, Jaipur 302003.

Chemical Mfrs. Assocn., Udaipur, 50, Ashok Nagar, Udaipur 313001.

Conductor Mfrs. Assocn., Rajasthan, 4, Malviya C Scheme, Jaipur 302001.

Cycle Mfrs.' Assocn., Rajasthan, Behind Atish, Gangori Bazar, Jaipur 302001.

Employers Assocn. of Rajasthan, Podarpuri, Jaipur 302006.

Foundry Owners Assocn., C/o Jaipur Maize Products Co., Jaipur West, Jaipur 302006.

Hosiery Mfrs. Assocn., Rajasthan, 8, Bichunka Bagh, Sansarchandra Rd., Jaipur 302001.

Industrial & Mining Assocn., Pusa Niwas, Bhilwara 311001.

Iron Ore Mine Owners & Exporters Assocn., Rajasthan, Johari Bazar, Jaipur 302003.

Iron & Steel Rerollers' Assocn., Rajasthan, 1155-57, Rasta Singhiji, S.M.S. Highway, Jaipur 302003.

Jewellers' Assocn., Johari Bazar, Jaipur 302003.

Lime Flooring Stone Merchants Assocn., Kota, Ramganjmandi 326519.

Marble Industries Assocn., Makrana, Indl. Estate, Makrana 341505.

Mine Owners Assocn., Rajasthan, C/o Damodardas Khandelwal, Johari Bazar, Jaipur 302003.

Paper Traders Assocn., Rajasthan, Rampura Bazar, Kota 324001.

Plastic Industries Assocn., Nimaj House, Jodhpur 342001.

Powerloom Assocn., Bhilwara Zilla, Bhilwara 311001.

Productivity Council, Rajasthan State, E-29, Lajpat Marg, 'C' Scheme, Bhagwandas Rd., Jaipur 302001.

Pushtak Vyavasayee Sangh, Rajasthan, Chaura Rasta, Jaipur 302003.

Salt Distributors, Chamber of Genuine, Gaushala Bhawan, Dhan Mandi, Sambhar Lake 303604.

Sarrafa Sangh, Rajasthan, Kanhaiya Bhawan, Chandpole Bazar, Jaipur 302001.

Small Industries of Rajasthan, Fedn. of Assocns. of, Rajasthan Chamber Bhawan, M.I. Rd., Jaipur 302003.

Small Tool Mfrs. Assocn., C/o Khandewala Udyog, Behari Marg, Beni Park, Jaipur 302001.

Steel Furniture Mfrs. Assocn., Rajasthan, Atish Mkt., Jaipur 302001.

Textile Dealers' Assocn., Jaipur, Purohitji ka Katra, Jaipur 302003.

Textile Mills Assocn., Rajasthan, Durlabh Bhawan, Mirza Ismail Rd., Jaipur 302001.

Transport Operators' Assocn., Jaipur, C/o New Sethi Transport Co., Moti Dongri Rd., Jaipur 302004.

Vanaspati Mfrs. Assocn., Rajasthan, A-8, Sardar Patel Rd., Jaipur 302001.

Vastra Vyapar Sangh, Jodhpur, Katla Bazar, Jodhpur 342001.

Wool Merchants Assocn., Mewari Bazar, Beawar 305901.

Wool Traders Assocn., Bikaner, Daga Chowk, Bikaner 334001.

Yarn Merchants Assocn., Jaipur, D-23, Saraswathi Marg, Beni Park, Jaipur 302001.

CULTURAL, SOCIAL AND PROFESSIONAL

Carrom Assocn., Rajasthan, S.M.S. Stadium, Jaipur 302005.

Chartered Accountants of India, Instt. of, Khetan Bhawan, M.I. Rd., Jaipur 302001.

Engineers (India), Instt. of, Near Children's Park, Gandhinagar, Tonk Rd., Jaipur 302001.

Family Planning Assocn. of India, Mundri Mohalla, Ajmer 305001.

Lalit Kala Akademi, Rajasthan, Ravindra Manch, Ramnivas Garden, Jaipur 302004.

Medical Assocn., Indian, J-2/152, Vivekananda Mrg., Ashok Nagar, Jaipur 302001.

Pharmaceutical Assocn., Indian, Dept. of Pharmacy, Public Health Training Instt. Jaipur 302004.

Sangeet Natak Academy, Rajasthan, Paota, A-1 Rd., Jodhpur 342001.

Social Welfare, Indian Council of, Naib-ji-ka-Bagh, Moti Dongri Rd., Jaipur 302004.

TB Assocn., Rajasthan State, Office of the Directorate of Medical & Health Services, Jaipur 302001.

Zoological Socy., Deptt. of Zoology, Birla Instt. of Technology & Science, Pilani 333031.

TAMIL NADU

COMMERCIAL

Aluminium Merchants' and Mfrs.' Assocn., Madras, 10/11, Peddu Naicken St., Madras 600003.

Aluminium Semis & Extrusions Assocn., 7, Ekambareswara Agraharam, Madras 600003.

Aluminium Urpathyalargal & Vyaparigal Sangam, 6, Ramnad Rd., Madurai 625009.

Arecanut Merchants Assocn., Tiruchy, D-10 & D-11, Gandhi Mkt., Tiruchirapalli 620008.

Arecanut Scented Supari Mfrs. Assocn., Tamilnadu, 72, Market Rd., Dindigul 624001.

Art Silk Handloom Cloth Mfrs. & Exporters' Assocn., 30, B. East Colony, Komarpalayam 638183, Salem Dist.

Art Silk Twisters Assocn., Kamadhenu, 140, Pension Line Rd., Salem 636006.

Art Silk Yarn Producers' Assocn., Madurai Twisted, 67, Ramnad Rd., Madurai 625009.

Automobile Assoc. of Southern India, 38-A, Mount Rd., Madras 600006.

Blockmakers Assocn., South India, 26, Cathedral Rd., Madras 600086.

Booksellers' and Publishers' Assocn. of South India, C/o Higginbothams Ltd., 165, Mount Rd., Madras 600002.

Brick and Tile Mfrs. Assocn., 9, Jayammal St., Shenoy Nagar, Madras 600030.

Builders' Assocn. of India (South Centre), 3/3A, College Rd., Madras 600006.

Cable & Conductor Mfrs. Assocn., Tamil Nadu, 5, Smith Rd., Madras 600002.

Carbon-dioxide Mfrs. Assocn. of South India, Dare House, North Beach, Madras 600001.

Cardamom Planters' Assocn. of South India, 420, Main Rd., Cumbum 626516. Madurai Dist.

Cardamon Traders Chamber, Main Rd., Bodinayakanur 626513, Madurai Dist.

Cement Mfrs., Assocn., 72, East Veli St., Madurai 625001.

Ceramic Mfrs. Assocn., B-1, Industrial Estate, Vridhachalam 606001.

Chemical Mfrs. Assocn., 15/1, C.B.K. Lane, Kamaraja Rd., Madurai 625009.

Chemists & Druggists Fedn., All India, 1, Memorial Hall St., Madras 600001.

Chillies Merchants' Assocn., Madras, 18, Chinnathambimudali St., Madras 600001.

Clothing Mfrs.' Assocn. of India (S. Regn. Office), Indian Chamber Bldgs., Esplanade, Madras 600001.

Coffee Merchants' Assocn., All India, 55, Rangai Gowder St., Coimbatore 641001.

Corrugated Box Mfrs. Assocn., South India, 84, Sydenham's Rd., Madras 600007.

Cotton Assocn., Coimbatore, 6/83, Avanashi Rd., Coimbatore 641018.

Cotton Ginners' Assocn., Coimbatore Dist., 6/83, Avanashi Rd., Coimbatore 641018.

Cotton Merchants' Assocn., Tirupur, 95, Kumaran Rd., Tirupur 638601.

Cottonseed Merchants' Assocn., Tamil Nadu, 95, Thadicombu Rd., Dindigul 624001.

Cotton Waste Merchants & Exporters Assocn., Southern India, 26, Syrian Church Rd., Coimbatore 641001.

Dyes and Chemicals Merchants' Assocn., Tamil Nadu, 209, Govindappa Naick St., Madras 600001.

Dyes & Chemical Merchants' Assocn., Madurai, 2, P. Ramasamy Iyer Lane, Manjanakara St., Madurai 625001.

Electric Trades Assocn., Madras, 26, Tholasingham St., Madras 600001.

Employers' Combine, All India, 367, East Masi St., Madurai 625001.

Employers' Fedn. of Southern India, Dare House Annexe, 3/4, Moore St., Madras 600001.

Engineering Industry, Assocn. of Indian, Dare House Annexe, 3/4, Moore St., Madras 600001.

Engineering Mfrs. Assocn., Southern India, Kalaikathir Bldg., Avanashi Rd., Coimbatore 641018.

Expert Forum, Tuticorin, 76-A, Meenakshipuram, Tuticorin 628002.

Fertiliser Assocn. of India, (S. Regnl. Branch), Andhra Chamber Bldg., 272/3, Angappa Naicken St., Madras 600001.

Film Chamber of Commerce, South Indian, T. R. Sundaram Ave, 123, Mount Rd., Cathedral P.O., Madras 600006.

Film Distributors Council, Tamil Nadu, (Regd.), 6-A, Woods Rd., Madras 600002.

Film Directors Assocn., South India, 11A, Gopalakrishna Iyer Rd., T. Nagar, Madras 600017.

Film Producers Guild of South India, 41, Bazlullah Rd., Madras 600017.

Financiers & Pawn Brokers' Assocn., Madras, 217, Govindappa Naicken St., Madras 600001.

Fireworks Mfrs. Assocn., Small Scale Cottage, Door No. 7-3/5, Seeni Moopnagar St., Sivakasi 626163.

Fishermen's Co-op. Fedn. Ltd., Madras, 8/7, Kalmandapam Rd., Royapuram, Madras 600013.

Gem (Synthetic) Cutting Dealers Assocn., Tiruchy Dist., Big Bazar, Tiruchirapalli 620008.

Glass Mfrs. Assocn., South India, C/o S. India Glass & Enamel Works Ltd., 172, Cherry Rd., Salem 636007.

Goods Transport Assocn., Madras, 278, Linghi Chetty St., Madras 600001.

Gunny Merchants' Assocn., Madras, 35-A, Audiappa Naicker St., Madras 600001.

Handicraft Mfrs. Assocn., Tamil Nadu State Industries, 78/12, Kumaran Rd., Tirupur 638601.

Handicrafts Co-operative Marketing Socy. Ltd., Madras State, 329, Thambu Chetty St., Madras 600001.

Handkerchiefs Exporters Assocn. (Regd.), Real Madras, 7, Md. Abdullah Sahib St., Chepauk, Madras 600005.

Handloom Cloth Mfrs. Assocn., Salem Gugai, 407, Trichy Main Rd., Salem 636006.

Handloom Cloth Merchants Assocn., Coimbatore Dist., 71, Sukrawarpeth, Coimbatore 641001.

Handloom Cloth Producers' Assocn. Ltd., Madurai, 44, Lakshmipuram 2nd St., Madurai 625001.

Handloom Fabrics Marketing Co-op. Socy. Ltd., All India, 16, Sunkurama Chetty St., Madras 600001.

Handloom Inds. Assocn., Southern India, No. 3, Somasundaradevar 6th St., Aynavaram, Madras 600023.

Handloom Industry and Trade Assocn., Tamil Nadu, 72, Thambu Chetty St., Madras 600001.

Handloom Mfrs. Assocn., Tiruchy, Panchavarnaswamy Koil St., Woraiyur, Tiruchirapalli 620003.

Handloom Merchants' Assocn., Sree Madura Wholesale, 81, Manickakrishnasamy Lane, Mahal 3rd St., Madurai 625001.

Handloom Textile Processors' Assocn., 218, Netaji Rd., Erode 638001.

Handloom Towels and Bedsheets Mfrs. Assocn., Tamil Nadu Fedn. of, Erode 638001.

Handloom Weavers Assocn., Coimbatore Devanga, 58, Rangai Gowder St., Coimbatore 641001.

Handloom Weavers' Co-op. Socy. Ltd., Tamil Nadu, 34/1A, Pantheon Rd., Madras 600008.

Hosiery Mfrs. Assocn., South India, 78/12, Kumaran Rd., Tirupur 638601.

Hotels and Restaurants Assocn., South India, Spencer's Bldg., 153, Mount Rd., Madras 600002.

Industrial Estate Assocn., Tamil Nadu, Developed Plot No. 48, A. Industrial Estate, Madras 600048.

Industrial Estate Mfrs. Assocn., Ind. Estate, Guindy, Madras 600032.

Industries Assocn., Madras, 114, Mowbray's Rd., Madras 600018.

Instruments & Electronics Industrial Estate Mfrs. Assocn., 1-6, Instronics Campus, Madras 600020.

Iron Safe Mfrs. Assocn., Madras, 58, Broadway, Madras 600001.

Iron & Steel Fabricators' Assocn., Madurai Dist., 66-A, South Avanimoola St., Madurai 625001.

Jaggery, Tamarind Mundy Merchants Assocn., Madras, 43, Kandappa Chetty St., Madras 600001.

Jewellers' and Diamond Merchants' Assocn., Madras, 11 & 12, Car St., Madras 600001.

Lungi Mfrs. Assocn., Cotton, C/o Nagor Mercantile, 41, Sembudoss St., Madras 600001.

Machine Tools Merchants' Assocn., Tamilnadu, 52, Linghi Chetty St., Madras 600001.

Manufacturers' Organisation, All India, (Tamil Nadu Board), 150-B, Mount Rd., Madras 600002.

Marketing Fedn. Ltd., Tamil Nadu Co-op., 40-A, St. Mary Rd., Raja Annamalaipuram, Madras 600018.

Marketing Fedn. Ltd., Tamil Nadu, 63, D.B. Rd., Coimbatore 641002.

Match Industries, Chamber of, Gudiyattam 632602, N. Arcot Dist.

Match Industries, Sivakasi Chamber of, 110, Kamaraj Rd., Sivakasi 626123.

Match Service Indl. Co-op. Socy. Ltd., Kovilpatti Small, Ind. 715, P.O. Box. No. 6, Kovilpatti 627701.

Metalware Mfrs. & Merchants Assocn., Tamil Nadu, 36, Raghunayakulu St., Madras 600003.

Millowners' Assocn., Southern India, Race Course, Post Box 3783, Coimbatore 641018.

Millowners' Assocn., Tamilnadu, Meenakshi Nilayam, T. P. K. Rd., Madurai 625003.

Motor Vehicles and Allied Industries Assocn., 22, Edward Elliot's Rd., Madras 600004.

Musical Instrument Workers' Industrial Co-op. Socy., Thanjavur, Thanjavur 613001.

Non-ferrous Metal Rolling Mills Assocn., Tamil Nadu, 19, Venkatachala Mudali St., Madras 600003.

Oil & Allied Products Co-op. Fedn. Ltd., Tamil Nadu, Kuralagam, Madras 600001.

Oilseeds Mundy Merchants' Assocn., 38, Thathamuthiappan St., Madras 600001.

Onion Traders' Assocn., 2/41, Malayaperumal St., Madras 600001.

Opticians Assocn., Madras, 24, Broadway, Madras 600001.

Palmgur & Fibre Marketing Co-op. Fedn., Ltd., Tamilnadu State, 52, Gengu Reddy Rd., Egmore, Madras 600008.

Paper Bag Mfrs.' Assocn., South India, 4, Bunder St., Madras 600001.

Paper & Board Convertors' Assocn., Madras, 275, N.S.C. Bose Rd., Madras 600001.

Pencil Mfrs.' Assocn., Indian, C/o Standard Pencil Factory, Super A-5 & 6, Ind. Estate, Madras 600032.

Pharmaceutical Assocn., Indian, C/o Rallis India Ltd., TCF Div., Arcot Rd., Madras 600092.

Pharmaceutical Trade, Joint Council of Indian, 1, Memorial Hall St., Madras 600003.

Photographic and Allied Trades Assocn. Ltd., South Indian, 1/129, Mount Rd., Madras 600006.

Planters' Assocn. of Southern India, United, P.O. Box No. 11, "Glenview", Coonoor 643101, Nilgiris.

Planters' Assocn. of Tamil Nadu, Canowie, Kotagiri Rd., Coonoor 643101.

Plastic Mfrs. Assocn., Tamil Nadu, 176, Walltax Rd., Madras 600001.

Printers' Assocn., Sivakasi Master, 87, Kamaraj Rd., Sivakasi 626123.

Printers' Assocn., Tamilnad, 18, East Hanumantharayan Koil St., Madurai 625001.

Printers' & Lithographers' Assocn., Madras, 31/2A, Pantheon Rd., Egmore, Madras 600008.

Productivity Council, National, 6, Montieth Rd., Egmore, Madras 600008.

Productivity Council, Madras, 17, G. N. Chetty Rd., T. Nagar, Madras 600017.

Publishers' Assocn. of South India, 11, Sunkurama Chetty St., Madras 600001.

Pyrotechnists' Assocn., Indian, Valapalakudai St., Sivakasi 626123.

Radio & Electronics Assocn., All India, 22, General Patters Rd., Madras 600002.

Refrigeration and Air Conditioning Trades Assocn., 23/24, Second Line Beach, Madras 600001.

Roads & Transport Devpt. Assocn., Indian, C/o Indian Motor Parts & Accessories Ltd., 1/155, Mount Rd., Madras 600002.

Salt Mfrs. and Merchants' Assocn., 159, Victoria St., Tuticorin 628001.

Salt Producers' Assocn., Small Scale, Arumuganeri 628202, Tirunelveli Dist.

Salt Producers' & Exporters' Chamber, Tuticorin 628001.

Saltpetre Mfrs. Assocn., Tamil Nadu, 7/62-63, Coimbatore Palghat Main Rd., Kuniyamuthur Post, Coimbatore 641008.

Sanitary Dealers' Assocn., South India, 306, Thambu Chetty St., Madras 600001.

Sea Food Industrial Co-op. Socy. Ltd., Madras, No. 10, West Mada Church St., Royapuram, Madras 600013.

Seed Producers' Assocn. Ltd., Tamil Nadu, C/o Sakthi Sugars Ltd., 8/28, Race Course Rd., Coimbatore 641018.

Shroffs & Jewellers Assocn., Tiruchy, Big Bazar, Tiruchirapalli 620008.

Silk Handloom Weavers Co-op. Production & Sale Socy. Ltd., 168-A, Gandhi Rd., Kancheepuram 631501.

Skin and Hides Merchants' Assocn., Southern India, 16, Sydenham's Rd., Periamet, Madras 600003.

Small Industries of India, Fedn. of Assocns. of, 10, G.S.T. Rd., Madras 600032.

Small Scale Inds. Assocn., Tamil Nadu, 10, G. T. S. Rd., Guindy, Madras 600032.

Snuff & Tobacco Merchants Assocn., Madras State, 56, Varada Muthiappan St., Madras 600001.

Soap Mfrs. Assocn., Tamil Nadu Non-Power, 383-A, T. H. Rd., Madras 600081.

Soap Mfrs. Assocn., Tamilnad Southern Regional Handmade, 38-39, Amman Sannathi St., Madurai 625001.

Steamer Agents' Assocn., Madras, 1/21, North Beach Rd., Madras 600001.

Steamer Agents' Assocn., Tuticorin, 90, South Raja St., Tuticorin 628001.

Steel Merchants' Syndicate, 87, East Masi St., Madurai 625001.

Steel Rolling Mills Assocn., Tamilnadu, Indian Chamber Bldg., Esplanade, Madras 600001.

Stevedores' Assocn., Madras, 41, Linghi Chetty St., Madras 600001.

Stevedores' Assocn., Tuticorin, 50, Beach Rd., Tuticorin 628001.

Stock Exchange Ltd., Madras, 16/17, Second Line Beach, Madras 600001.

Sugar Factories Ltd., Madras State Fedn. of Co-op., 2, Maharaja Suryarao Rd., Madras 600018.

Sugar Mills Assocn., South Indian, Indian Chamber Bldgs., Esplanade, Madras 600001.

Synthetic Stones Mfrs. & Dealers' Assocn., Southern India, Big Bazar, Tiruchirapalli 620008.

Tanners and Dealers Assocn., South India, Ranipet 32401, North Arcot Dist.

Textile Assocn., (India), S. I. Branch, Near Kasturba Hospital, Cotton Mills Rd., Coimbatore 641015.

Textiles Assocn., Tamil Nadu, 2, First Gandhipuram, Erode 638003.

Textiles Mfrs. and Exporters' Socy., Handloom Salem Main Rd., Kumarapalayam 638183, Salem Dist.

Yarn Merchants' Assocn. Ltd., Madurai, 190, South Masi St., Madurai 625001.

Yarn Trade Fedn., South India, 38, Mint St., Madras 600003.

CULTURAL, SOCIAL AND PROFESSIONAL

Agri-Horticultural Socy., 18, Cathedral Rd., Madras 600006.

Agro Engineering & Service Co-op. Fedn. Ltd., Tamil Nadu, 46, Theagaraya Rd., T. Nagar, Madras 600017.

Anglo-Indian Assocn., All India, 15, Latanga Rd., Madras 600007.

Animals, Socy. for Prevention of Cruelty to, Vepery High Rd., Vepery, Madras 600007.

Animal Welfare Board, 1, First Main Rd., Gandhinagar, Madras 600020.

Asthika Samajam (Regd.), Venus Colony, Madras 600018.

Athletic Assocn. Ltd., South India, Moore Pavilion, Madras 600003.

Automobile Engineers (India), Insttn. of, 85, Mount Rd., Madras 600018.

Automotive Engineers, Insttn. of, 47, Third St., East Abhiramapuram, Mylapore, Madras 600004.

Badminton Assocn., Madras State, Nehru Stadium, Madras 600003.

Bar Assocn., High Court, Madras 600001.

Billiards Assocn., Tamil Nadu, 11, Mowbray's Rd., Madras 600018.

Business Management (India), Instt. of, 9, Bishop Wallers Ave., Madras 600004.

Business Management, Insttn. of, 47, Third St., East Abhiramapuram, Mylapore, Madras 600004.

Carrom Fedn., All India, (Also Carrom Assn., T. Nadu), Room 9, Nehru Stadium, P. T., Madras 600003.

Catholic Centre, Armenian St., Madras 600001.

Chartered Accountants of India, Instt. of, Sri Ram Bldg., 138, Jail Rd., Coimbatore 641018.

Chartered Accountants of India, Instt. of, 231, Nungambakkam High Rd., Madras 600034.

Child Welfare, Indian Council for, 1, Prakasa Mudaliar Rd., Madras 600017.

Children, Madras Socy. for the Protection of, 465, T.H. Rd., Washermanpet, Madras 600021.

Chinmaya Mission, 10, Harrington Rd., Madras 600031.

Cine Technicians' Assocn. of South India, 34, Usman Rd., Madras 600017

Company Secretaries of India, Instt. of, (Southern India Regnl. Council), New College Shopping Centre, 49, Peters Rd., Madras 600014.

Consumer Council of India, 8, A.C. Rd., Madras 600084.

Consumers' Assocn., Madras Provincial, 83, Big St., Madras 600005.

Cricket Assocn., Tamil Nadu, M.A.C. Stadium, Victoria Hostel Rd., Chepauk, Madras 600005.

Cultural Academy, Friends, 100, New St., Madras 600001.

Cultural Relations, Indian Council for, 3/C-1, Eldams Rd., Madras 600018.

Dental Council, Madras, Block Central Office Bldgs., Madras 600006.

Economic Assocn., Indian, Deptt. of Economics, Univ. of Madras, Madras 600005.

Economics, Indian Socy. of Industrial & Fiscal, Univ. of Madras, Madras 600005.

Electrochemical Sciences & Technology, Socy. for the Advancement of, Central Electrochemical Research Instt., Cecrinagar, Karaikudi 623006.

Engineers (India), Insttn. of, 1, Adam's Rd., Chepauk, Madras 600005.

Family Planning Assocn. of India, No. 10, 2nd Main Rd., C.I.T. Colony, Madras 600004.

Film Societies of India, Fedn. of, 35/1, K. M. Naicken St., Madras 600028.

Football Assocn., Tamilnadu, Nehru Stadium, Madras 600003.

Free Enterprise, Forum of, 35, Mount Rd., Madras 600002.

Friend-in-Need Socy., Finsbree Garden, 19/20, Poonamallee High Rd., Madras 600003.

Gandhigram Trust, Gandhigram 624302.

Geographical Socy., Indian, Univ. Centenary Bldgs., Chepauk, Madras 600005.

Geography Teachers of India, Assocn. of, 21B/1, Dr. Vasudevan Rd., Madras 600010.

Hockey Fedn., Indian, Corporation Stadium, Madras 600003.

Homoeopathic Assocn. of India, 10, Shafee Mohamed Rd., Madras 600006.

Homoeopathy Council, Tamil Nadu, 36, Parthasarathy Naidu St., Madras 600005.

Homoeopaths, Indian Instt. of, 30, Bakthapuri St., Kumbakonam 612001; 78, West Tower St., Madurai 625001; 3/186, 2nd Flr., Mount Rd., Madras 600002.

Horticultural Association, South Indian, Lawley Rd., Post Coimbatore 641003.

Indo-Canada Assocn., TNK House, 11-A/3, Mount Rd., Madras 600002.

Industrial & Fiscal Economics, Indian Socy. of, Univ. of Madras, Madras 600005.

Insurance Surveyors & Loss Assessors (S. India), Assocn. of, 11/12, 2nd Line Beach, Madras 600001.

International Art Centre, Kalakshetra, Tiruvanniyur, Madras 600041. Centre for education in classical music, dancing, theatrical art, painting & handicrafts.

Journalists, Madras Union of, 15, Ritchie St., Madras 600002.

Law Instt. (T. Nadu Unit), Indian, 8, High Court Chambers, Madras 600001.

Library Assocn., Madras, C/o Maraimalai Adigal Library, 105, Linghi Chetty St., Madras 600001.

Lift Irrigation Co-op. Fedn., Tamil Nadu, 32, Luz Church Rd., Madras 600004.

Literary Socy., Madras, Auxiliary of the Royal Asiatic Socy., College Rd., D.P.I. Compound, Madras 600006.

Management Assocn. of Southern India, 1/4, Devajee Mansion, Melur Rd., Madurai 625001.

Materials Management, Indian Assocn. of, C/o Audco India Ltd., Mount-Poonamallee Rd., Manapakkam, Madras 600089.

Mathematical Socy., Indian, Ramanujan Instt., Univ. of Madras, Madras 600005.

Medical Assocn., Indian, B-20, Swaminatha Sastri Rd., N.E. Extension, Thillianagar, Tiruchirapalli 620018.

Medical Council, Tamil Nadu, Block 1, Central Office Bldg., Mount Rd., Cathedral Post, Madras 600006.

Missionary Socy., of India, National, 102, Peters Rd., Madras 600014.

Muslim Assocn., Malabar, 7, Kennet Lane, Egmore, Madras 600008.

Nair Samajam, Madras, 7, Shenoy Rd., Nungambakkam, Madras 600034.

Painters, South Indian Socy. of, No. 13, 3rd Trust Cross St., Madras 600028.

Personnel Management, Indian Instt. of, C/o L. G. Balakrishna & Bros., Trichy Rd., Coimbatore 641018.

Philatelic Academy, Rangpar, 27, Dewan Rama Iyengar Rd., Purasawalkam, Madras 600084.

Plant Engineers, Indian Insttn. of, 15A, Sivaganga Rd., Madras 600034.

Plastics & Rubber Instt., Indian Section (Plastics), (Madras Centre), C/o T. S. Biddapa, Nocil, 20, Nungambakkam High Rd., Madras 600034.

Public Affairs, Council of, 491, P.H. Rd., Madras 600007.

Punjab Assocn., 82, Peters Rd., P.O. Box 416, Royapettah, Madras 600014.

Quality Assurance, National Instt. of, B-5/214, BHEL Township, Tiruchirapalli 620014.

Ramakrishna Math, Sri, 11, Sri Ramakrishna Math Rd., Mylapore, Madras 600004.

Ramakrishna Paramahamsa-Swami Vivekananda Instt., Sri, 86, Walltax Rd., Madras 600003.

Rasika Ranjani Sabha, Sundareswar St., Mylapore, Madras 600004.

Red Cross Socy., Indian, T. Nadu Branch, Red Cross Bldg., Montieth Rd., Egmore, Madras 600008.

Sadhu Sangam, Akhila Bharatha, Paranur, Via Mugavur, S. Arcot Dist.

Sangita Nataka Sangam, Madras State, 'Brodie Castle,' Greenways Rd., Madras 600028.

Sarvodaya Sangh, Madras, 39, Linghi Chetty St., Madras 600001.

Scouts & Guides, Bharat, 'Wenlock Park', Kamarajar Salai, Triplicane, P.B. No. 424, Madras 600005.

Servants of India Socy., 8, Westcott Rd., Royapettah, Madras 600014.

Seva Nilayam, Rajathani, Andipatti 626512, Madurai Dist.

Social Action, Church Auxiliary for, Gukutul Compound, Thambuswami Rd., Kilpauk P.O., Madras 600010.

Sports Council, Tamil Nadu State, Nungambakkam Recreation Centre, Madras 600034.

Statistical Institute, Indian, 417, Mettupalayam Rd., Coimbatore 641002.

Statistical Institute, Indian, 31, N. High Rd., Madras, 600034.

St. John Ambulance Assocn., 1, Spur Tank (E.) Rd., Madras 600031.

Surgeons of India, Assocn. of, Adams Rd., Madras 600005.

Tamil Sangam, Madurai, 54, Tamil Sangam Rd., Madurai 625001.

Technical Education, Indian Socy. for, IIT Campus, Madras 600036.

TB Assocn., of Tamil Nadu, Office of the D.H.S. & F.W., 81, Mount Rd., Madras 600006.

Theosophical Lodge, 25, Shermadevi Rd., Tirunelveli 627006.

Theosophical Socy., (Intnl. Hqrs.), Adyar, Madras 600020.

Veterinary Assocn., Indian, 10, Avenue Rd., Madras 600034.

Village Uplift Fedn., Tamil Nadu, 6, New St., Kottur, Madras 600085.

Vivekananda Kendra, Kanyakumari 629702.

Vocational Guidance & Employment Centre, Christian, 8/4-B, Balfour Rd., Madras 600010.

Volleyball Assocn., Tamil Nadu State, Nehru Stadium, Madras 600003.

Weight Lifting Assocn., Madras State, 6, Ayyavu Naidu East St., Madras 600030.

Y.M.C.A., Esplanade, Madras 600001.

Y.W.C.A., Poonamallee High Rd., Madras 600084.

Youth Hostel, YWCA International Guest House & Transit, 530, P. High Rd., Madras 600084.

TRIPURA

COMMERCIAL

Industries Assocn., Tripura, Netaji Subhas Rd., Agartala 799001.

Soap Factory Owners Assocn., Tripura, Netaji Subhas Rd., Agartala 799001.

CULTURAL, SOCIAL AND PROFESSIONAL

Medical Assocn., Indian, G.B. Hospital, P. O. Kunjaban, Agartala 799006.

Red Cross Socy., Indian, Manikay Club, Agartala 799001.

TB Assocn. of Tripura, Office of the V.M. Hospital, Agartala 799001.

UTTAR PRADESH

COMMERCIAL

Automobile Assocn., U.P., 32-A, M. Gandhi Mrg., Allahabad 211001.

Ayurvedi Rasayanam Nirmata Sangh, Panchpuri, Khantal Rd., Mayapuri, Hardwar 249401.

Barbed Wire Mfrs.' Assocn., U.P., 58/4, Birhana Rd., Kanpur 208001.

Bharkam (Heavy Brassware) Mfrs. Assocn., Durgadevi, Mirzapur 231001.

Biscuit Mfrs. Assocn., U.P., 84/87, G.T. Rd., Kanpur 208001.

Booksellers' Assocn., Rajpur Rd., Dehra Dun 248001.

Brass Merchants & Mfrs. Assocn., Banaras, Vyapar Bhawan, Thatheri Bazar, Varanasi 221001.

Carpet Mfrs.' Assocn., All India, Post Box No. 63, Kaleen Bhawan, Maryadpatti, Bhadohi 221401.

Carpet Mfrs. Co-op. Assocn. Ltd., Quality Marked Woollen, Gopal Das Rd., Mirzapur 231001.

Christian Tract & Book Socy., North India, (Publishers & Book Sellers), 18, Clive Rd., Allahabad 211001.

Concrete Pipe Mfrs.' Assocn., U.P., 239-A, National Highway, New Agra, Agra 282001.

Conductor Mfrs. Assocn., U.P., Kautilya Kendra Mrg., Varanasi Cantt. 221002.

Cottage Industries Devpt. Instt., 57/97, Tilpurwa, Hussainganj, Lucknow 226001.

Cycle Veopar Mandal, Gandhi Rd., Dehra Dun 248001.

Dal Millers Assocn., All India, Belanganj, Agra 282004.

Diesel Engine Mfrs.' Assocn., U.P., 88, North Vijay Nagar Colony, Agra 282001.

Employers' Assocn. of Northern India, 14-69, Civil Lines, Kanpur 208001.

Engineering Assocn. of Northern India, 79/7, Latouche Rd., Kanpur 208001.

Engineering Chamber of Uttar Pradesh, 92, Fazalganj, Kanpur 208912.

Glass Factories Assocn., Sadar Bazar, Firozabad 283203, Agra Dist.

Glass Mfrs.' Syndicate, U.P., C/o Paliwal Glass Works, Shikohabad 205141.

Gur, Galla Vyapari Sangh, Jawahar Ganj, Mathura 281001.

Gur, Khandsari & Grain Merchants Assocn., 71-B, New Mandi, Muzaffarnagar 251001.

Handicraft Exporters' Assocn., Farrukhabad, 2-95, Lohai Rd., Farrukhabad 209625.

Hardware Assocn., Raja Rd., Dehra Dun 248001.

Hide Merchants' Assocn., Farrashkhana, Kanpur 208001.

Hosiery Assocn., Kanpur, 118/265, Kaushalpuri, Kanpur 208012.

Hosiery Knitters Assocn., Kanpur, 119/31, Nasimabad, Kanpur 208012.

Industrial Estate Mfrs. Assocn., U.P., 5, Ind. Estate, Kanpur 208001.

Iron Founders' Assocn., Agra, 88, North Vijay Nagar Colony, Agra 282004.

Laghu Ewam Kuteer Udyog Fedn., Uttar Pradesh, 107, Aminabad Rd., Lucknow 226001.

Light & Small Industries Assocn., U.P., Achal Tank East, Achal, Aligarh 202001.

Limestone Quarry Owners' Assocn., Dehra Dun, Rest Camp Rd., Dehra Dun 248001.

Lock Mfrs.' and Traders' Assocn., Aligarh, Tala Bhawan, 5/9, Jaiganj Rd., Aligarh 202001.

Manufacturers' Organisation, All India, J. Nehru Marg, P. Box 45, Navyug Mkt., Ghaziabad 201001.

Metallic Yarn Mfrs. Assocn., 37/120, Jagannath Puri, Rathyatra, Varanasi 221001.

Motor Industries Assocn., U.P., Allied Motors P. Ltd.,Hazratganj, Lucknow 226001.

Non-Ferrous Mfrs. Assocn., Mirzapur, Durgadevi, Mirzapur 231001.

Newspapers Fedn., All India Small & Medium, 104A/198, Rambagh, Kanpur 208012.

Oil Millers' Assocn., U. P., 52-10, Collectorganj, Kanpur 208001.

Pharmaceutical Assocn., Indian, Deptt. of Pharmaceuticals, Banaras Hindu Univ., Varanasi 221005.

Photographers' Assocn., Connaught Place, Dehra Dun 248001.

Plastic Mfrs. Assocn., Varanasi Small, Santiniketan, Varanasi 221005.

Power Loom & Small Inds. Assocn., Varanasi, 15/121, Rishipattam Mrg., Sarnath 221007.

Printers Assocn., Lucknow, 50, Gautam Buddha Mrg., Lucknow 226001.

Productivity Council, Eastern U.P., Shahi Bldg., Cinema Rd., Golgha, Gorakhpur 273001.

Productivity Council, National, 7/155, Swarup Nagar, Kanpur 208002.

Productivity Council,Western U.P., 46/16, Kalyani, Civil Lines, Meerut 250001.

Publishers' Assocn., Uttar Pradesh, 119, Swami Vivekanand Mrg., Allahabad 211003.

Quality Marked Goods Mfrs. Co-op. Assocn., Ltd., 48, Civil Lines, Roorkee 247667.

Rubber Goods Mfrs. Assocn., 101-A, Ajmer Rd., Agra Cantt. 282001.

Sabun Nirmata Sangh, 18/208, Basu Mandi, Basi Mill Compound, Kanpur 208001.

Scientific Dealers' and Makers Assocn., U.P., C/o Superior Scientific Stores, 109/221, Jawahar Nagar, Kanpur 208012.

Scissors Assocn., C/o Rafi Scissors Works, Sabungran, Pairamal Ka Bazar, Meerut City 250002.

Shoe Factors Fedn., Agra, Shoe Centre Bldg., Hing-ki-Mandi, Agra 282001.

Shoe Mfrs.' Assocn., Agra, 4/102-103, Bidyut Nagar, Dayal Bagh, Agra 282001.

Small Cottage Inds. Assocn. of U.P., Fedn. of, D-16, Vivekanandpuri, Lucknow 226007.

Small & Cottage Self Employed Industrialists Assocn., 29/141, Chawal Gali, Nimak Mandi, Agra 282001.

Small Industries Assocn., Court Rd., Saharanpur 247001.

Soap Industry Assocn., U.P. Small Scale, Nihal Singh Mkt., Ashok Nagar, G.T. Rd., Kanpur 208012.

Steel Wire Mfrs. Assocn. of Northern India, 117/491, Pandu Nagar, Kanpur 208001.

Sugar Exchange Limited, Upper India, 51/58, Collectorganj, Kanpur 208001.

Sugar Factories Fedn. Ltd., U.P. Co-op., 1A, LA Place, Shahnajaf Rd., Lucknow 226001.

Sugar Mills Assocn., U.P., 47/2, Kabir Mrg., Lucknow 226001.

Tanners' Fedn. of India, 14/69, Civil Lines, Kanpur 208001.

Textile Assocn., India, (U.P. Branch), 14/1, Civil Lines, Kanpur 208001.

Traders & Exporters Assocn., Foreign Tourists', 18, Mall Rd., Agra 282001.

Utensils Mfrs. Assocn., Bell Metal, Mirzapur 231001.

Zarda Udpadak Sangh, Assocn. of Small Scale Units of U.P., Tobacco Zarg Marg. 107, Aminabad Rd., Lucknow 226001.

CULTURAL, SOCIAL AND PROFESSIONAL

Academy of Banaras, American, Rewa Palace, B2/3, Rewa Ghat, Varanasi 221001.

Ambulance Assocn., St., John, Red Cross Bldg., Raja Nawab Ali Rd., Lucknow 226001.

Carrom Assocn., Uttar Pradesh, 86, Bai-Ka-Bagh, Allahabad 211001.

Ceramic Socy. Indian, Banaras Hindu Univ., Varanasi 221005.

Chartered Accountants of India, Instt. of, 16/77, Civil Lines, Katchehri Rd., Kanpur 208001.

Cheshire Homes India, 16, Pritam Rd., Dehra Dun 248001.

Homes: Bangalore, Vadodara, Bombay, Burnpur, Calcutta, Cochin, Lucknow, Nagercoil, Coimbatore, Delhi, Dehra Dun, Jamshedpur, Katpadi, Madras, Mangalore, Pune, Ranchi & Madurai.

Crime Prevention Socy. All India, Behari Niwas, Kanpur and Balaganj, Lucknow 226001.

Dharma Peetha, Board of Kashi, D35/87, Jangombari, Varanasi 221001.

Divine Life Society, P.O. Sivanandanagar, Tehri-Garhwal Dist., 249192.

Earthquake Technology, Indian Socy. of, Roorkee 247667.

Educational Assocns., All India Fedn. of, Jha-Seshadri-Khattry Bhawan, Kanpur 208001.

Engineers (India), Insttn. of, Teliarganj, Allahabad 211004.

Ethnographic & Folk Culture Socy., C-861, Sector 'C', Mahanagar, P. Box 209, Lucknow 226006.

Family Planning Assocn., of India, 27, Dr. B. N. Verma Rd., Lucknow 226001.

Foodgrain Technologists Research Assocn., of India, Hapur 245101.

Foresters, Socy. of Indian, P.O. New Forest, Dehra Dun 248001.

Geographical Socy. of India, National, Banaras Hindu Univ., Varanasi 221005.

Geohydrologists, Indian Association of, Geological Survey of India, 1, Gokhale Mrg., Lucknow 226001.

Graphical Workers, Indian Federation of, Rose Bldg., Subhash Rd., Aligarh 202001.

Indo-American Friendship Assocn., Rose Bldg., Subhash Rd., Aligarh 202001.

Library Science, Indian Association of Teachers of, Deptt. of Library Science, B.H.U., Varanasi 221005.

Mahila Ashram, (Home for Women in distress run by Municipal Corpn.), Motinagar, Lucknow 226001.

Materials Management, Indian Assocn. of, C/o J.K. Cotton Spg. & Wvg. Mills Co. Ltd., L. Kamlapat Rd., Kanpur 208012.

Medical Assocn., Indian, 24/66, Birhana Rd., Kanpur 208001.

Meditation, International Foundation of, 44, Kailash, Post Box No. 31, Kanpur 208001.

Nature Cure Assocn., All India, 52, Gwynne Rd., Lucknow 226001.

Nehru International Youth Club, 5A, Khadri Mohalla, Dehra Dun 248001.

Numismatic Socy. of India, Banaras Hindu Univ., Varanasi 221005.

Oil Assocn., of India, Essential, H. B. Technological Instt., Kanpur 208002.

Oil Technologists' Assocn. of India, Ganesh Flour Mills Co. Ltd., Kalpi Rd., Kanpur 208001.

Palaeontological Socy. of India, 98, M. Gandhi Rd., Lucknow 226001.

Pharmaceutical Assocn., Indian, 22-B, Church Lane, Allahabad 211002.

Producivity & Management, Instt. of, 46/16, Kalyani, Civil Lines, Meerut 250001.

Pulp & Paper Technical Assocn., Indian, Instt. of Paper Technology Campus, Saharanpur 247001.

Ramakrishna Mission Sevashram, Vivekananda Puri, Lucknow 226007.

Red Cross Socy., Indian, Red Cross Bldg., Raja Nawab Ali Rd., Lucknow 226001.

Sarva Seva Sangh, Rajghat, Varanasi 221001.

Scouts and Guides, Bharat, 109/1, Katra Rd., Allahabad 211001.

Seva Samiti, All India, Seva Samiti Bldgs., Seva Samiti Rd., Ram Bagh, Allahabad 211003.

Social Welfare, Indian Council of, C/o Gandhian Instt. of Studies, P.B. No. 116, Rajghat, Varanasi 221001.

Social Workers' Assocn. of India, Young, 83/21, Acharyanagar, Kanpur 208003.

Sugar Technologists' Assocn. of India, P.O. N.S.I., Kalyanpur, Kanpur 208017.

Theosophical Socy., U.P. Fedn. of., 12, Huntley House, Mahatma Gandhi Rd., Agra 282002.

Tuberculosis Assocn., Uttar Pradesh, 1, A. P. Sen Rd., Lucknow 226001.

United Nations Assocn., Rose Bldg., Subhash Rd., Aligarh 202001.

Vedic Sadhan Ashram, P.O. Tapovan, Dehra Dun 248001.

Wild Life Preservation Socy., of India, 7, Astley Hall, Dehra Dun 248001.

Zoology, Academy of, Khandari Rd., Agra 282002.

Zootomical Socy. of India, Banaras Hindu Univ., Varanasi 221005.

WEST BENGAL

COMMERCIAL

Acid & Chemical Mfrs. Assocn. Ltd., 78B, Maniktala St., Calcutta 700006.

Air-Conditioning & Refrigeration Assocn., Eastern India, C/o Century Components Co. P. Ltd., A/2C, Kyd St., Calcutta 700016.

Aluminium Rollers' and Fabricators' Assocn., Eastern, 23A, Netaji Subhas Rd., Calcutta 700001.

Animal Feed Mfrs. Assocn. of Eastern India, 8, Old Court House St., Calcutta 700001.

Arts & Crafts Exporters' Assocn., Indian, 9B, Chowringhee Place, Calcutta 700013.

Automobile Assocn. of Eastern India, 13, Ballygunge Circular Rd., Calcutta 700019.

Automotive Mfrs.' Assocn. of India, India Exchange, India Exchange Place, Calcutta 700001.

Ball and Roller Bearing Mfrs.' Assocn. of India, 3A, Shakespeare Sarani, Calcutta 700071.

Banks Assocn., Indian, Hong Kong House, B. B. Dinesh Bagh, Calcutta 700001.

Battery Mfrs.' Assocn., Indian, 23, R. N. Mookerjee Rd., Calcutta 700001.

Battery Mfrs.' Assocn., Indian Small Scale Storage, P-31, C.I.T. Rd., Entally, Calcutta 700014.

Belting Industries Assocn., Indigenous, 23, R. N. Mookerjee Rd., Calcutta 700001.

Bolt and Nut Dealers' Assocn., East Indian, P6, Kalakar St., Calcutta 700007.

Brickfield Owners' Assocn., Bengal, 23A, N. Subhas Rd., Calcutta 700001.

Bucket Mfrs.' Assocn. of India, 6, N. Subhas Rd., 2nd Floor, Calcutta 700001.

Builders' Associn. of India (Eastern Centre), 76, Ashutosh Mukherjee Rd., Calcutta 700025.

Builders' Hardware Industries Assocn. of India, India Exchange, 7th Floor, Calcutta 700001.

Cabinet Makers' and Furnishers' Assocn., Calcutta, 66, B.B. Ganguly St., Calcutta 700012.

Cable and Conductor Mfrs.' Assocn. of India, 2A, Shakespeare Sarani, Calcutta 700016.

Calendar Mfg. Assocn., 8, Ramkumar Rakshit Lane, Calcutta 700007.

Candle Mfrs. Assocn., West Bengal Small Scale, 3/2B, Gupta Lane, Calcutta 700006.

Canning Business Assocn., Canning Town, 24-Parganas.

Carpet Mfrs., Assocn., Indian, 9B, Chowringhee Place, Calcutta 700013.

Ceramic Development Assocn., Indian, India Exchange, Calcutta 700001.

Chain Assocn., All India, 29-B, Bentinck St., Calcutta 700001.

Chemical Mfrs., Assocn., Indian, India Exchange, India Exchange Place, Calcutta 700001.

Clearing Agents' Assocn., Calcutta, 23, R. N. Mookerjee Rd., Calcutta 700001.

Coir Mktg. Socy. Ltd., Cochin Central Co-op., 5, Amratolla Lane, Calcutta 700001.

Cold Storage Assocn., West Bengal, 8, Old Court House St., Calcutta 700001.

Comb Mfg. Assocn., West Bengal Celluloid, 16, Rabindra Sarani, Calcutta 700001.

Copper Information Centre, Indian, 27B, Camac St., Calcutta 700016.

Corrugated Box Mfrs.' Assocn., Eastern India, 41, Chowringhee Rd., Calcutta 700071.

Cycle Traders' Assocn., Indian, 67, Bentinck St., Calcutta 700001.

Cycle Tyre & Component Mfrs. Assocn., C/o Balaji Udyog, 3, Bentinck St., Calcutta 700001.

Earthmoving Equipment Parts Assocn. of Eastern India, 10/1, Princep St., Calcutta 700013.

Economic & Scientific Research Assocn., India Exchange, Calcutta 700001.

Electrical Contractors' Assocn. of Eastern India, P-11, Mission Row Extn., Calcutta 700001.

Electronic Industries Assocn., Small Scale, 8, Madan St., Calcutta 700001.

Electrical Transmission Line Mfrs. Assocn., 30, Ganesh Ch. Ave., Calcutta 700013.

Employers' Assocn., Calcutta, India Exchange, India Exchange Place, Calcutta 700001.

Enamellers Assocn., Vitreous, C/o Sur Enamel & Stamping Works P. Ltd., 24, Dr. L. M. Bhattacharjee Rd., Calcutta 700014.

Engine Mfrs. Assocn., West Bengal, 14, Ganesh Ch. Ave., Calcutta 700013.

Entrepreneurs Assocn., Educated Unemployed, 72, Deshapran Sashmal Rd., Calcutta 700033.

Entrepreneurs' Assocn., Young, 66/3A, Beadon St., Calcutta 700006.

Engineering Industry, Assocn. of Indian, 6, Netaji Subhas Rd., Calcutta 700001.

Export & Import Trade Assocn., Calcutta, 6, Netaji Subhas Rd., Calcutta 700001.

Exporters' Assocn., West Bengal, 8, Old Court House St., Calcutta 700001.

Fan Makers' Assocn. of India, India Exchange, India Exchange Place, Calcutta 700001.

Fasteners Assocn. of India, Industrial, India Exchange, 2nd Floor, Calcutta 700001.

Fertiliser Assocn. of India, (Eastern Regnl. Branch), 10A, Ho Chi Minh Sarani, Calcutta 700071.

Fish Merchants Assocn., Howrah, 11, Chandmari Rd., Howrah 711101.

Foundry Assocn., Indian, India Exchange, 7th Floor, India Exchange Place, Calcutta 700001.

Freight Brokers' Assocn., Calcutta, Royal Exchange, 6, Netaji Subhas Rd., Calcutta 700001.

Furniture Makers Assocn., Wood, 12/A/1, R.P. Mohan Rd., Uttarpara, Hooghly 712103.

Galvanised Sheet Merchants Assocn., 20, Strand Rd., Calcutta 700001.

Garment Mfrs.' & Dealers' Assocn., West Bengal, 8, Old Court House St., Calcutta 700001.

Garments Mfrs. Assocn., West Bengal Small Scale, 167/M, Rashbehari Ave., Calcutta 700019.

Glass, Bottle and Cork Merchants' Assocn., Calcutta, 6, Ezra St., Calcutta 700001.

Glass Mfrs.' Assocn., Bengal, 23, R. N. Mookerjee Rd., Calcutta 700001.

Goods Transport Assocn., Calcutta, 43, Zakaria St., Calcutta 700007.

Gunny Trades Assocn., 5, Clive Row, P.O. Box 573, Calcutta 700001.

Handicraft Inds. Assocn., West Bengal, 18, Ballygunge Stn. Rd., Calcutta 700019.

Hides and Skin Shippers' Assocn., Calcutta, 6, Netaji Subhas Rd., Calcutta 700001.

Home Industries Assocn., Bengal, 57, Chowringhee, Calcutta 700016.

Hosiery Assocn.,West Bengal, 8, Old Court House St., Calcutta 700001.

Hosiery Mfrs' Assocn., Bengal, 219, Bepin Behari Ganguli St., Calcutta 700012.

Hotel and Restaurant Assocn. of Calcutta Region, Spences Hotel, 4, Wellesley Place, Calcutta 700001.

Hydraulic Press Assocn., Calcutta, 6, Netaji Subhas Rd., Calcutta 700001.

Import & Export Trade Assocn., Calcutta, 6, N. Subhas Rd., Royal Exchange, Calcutta 700001.

Iron and Steel Scrap Dealers' Assocn., W. Bengal, 66, Bentinck St., Calcutta 700001.

Jute & Hessian Exchange Ltd., East India, 43, Netaji Subhas Rd., Calcutta 700001.

Jute Mfrs.' Devpt. Council, 25, Camac St., 6th Flr., Calcutta 700016.

Jute Mills Assocn., Indian, Royal Exchange, 9, N. Subhas Rd., Calcutta 700001.

Kapok Mills Assocn., Indian, 16, Satyanarain Temple Rd., Salkia, Howrah 711106.

Lac Exporters' Assocn., Indian, 6, Netaji Subhas Rd., Calcutta 700001.

Lamp Factories Assocn., Indian, 23, R. N. Mookerjee Rd., Row Extn., Calcutta 700001.

Lantern Mfrs. Assocn., India Exchange, 7th Floor, Calcutta 700001.

Lead/Zinc Information Centre, Indian, 2, S. N. Pandit St., Calcutta 700020.

Leather & Allied Products Marketing Co-op. Socy. Ltd., 13, South Tangra Rd., Calcutta 700046.

Leather Goods Mfrs. Assocn., Eastern, 4, Tollee Lane, Calcutta 700016.

Leather & Leather Goods Mfrs. Assocn., Calcutta, 102, Raja Basanta Roy Rd., Calcutta 700029.

Machinery Dealers' Assocn., Calcutta, 3/1/2, Armenian St., Calcutta 700001.

Magnet Wires and Cables Mfrs. Assocn., C/o Electrical Industries Corpn., 49/1, Gariahat Rd., Calcutta 700019.

Manufacturers' Organisation, All India (West Bengal State Board), Ilaco House, 1 & 3, Brabourne Rd., Calcutta 700001.

Marine Service Contractors' Assocn., P-11, Mission Row Extn., Calcutta 700001.

Master Printers' Assocn., Ltd., W. Bengal, 32/1A, Creek Lane, Calcutta 700014.

Metal Merchants' Assocn., East India, 8, Old Court House St., Calcutta 700001.

Metals Mfrs. Assocn., Indian Non-Ferrous, India Exchange, 4, India Exchange Place, Calcutta 700001.

Millowners' Assocn., Bengal, 2, Church Lane, Calcutta 700001.

Mining Assocn., Indian, 6, Netaji Subhas Rd., Calcutta 700001.

Monograph Assocn. of India, 3, British Indian St., Calcutta 700001.

Motion Pictures Assocn., Eastern India, 98E, Chowringhee Square, Calcutta 700013.

Motor Industries Assocn., 6, Netaji Subhas Rd., Calcutta 700001.

Non-Ferrous Industries Assocn., Small Scale, 23, R. N. Mookerjee Rd., Calcutta 700001.

Oil Millers' Assocn., East India, 8, Old Court House St., Calcutta 700001.

Paint Assocn., Indian, India Exchange, India Exchange Place, Calcutta 700001.

Paper Machinery Mfrs. Assocn., 6, Netaji Subhas Rd., Calcutta 700001.

Paper Makers' Assocn., Indian, 6, Netaji Subhas Rd., Calcutta 700001.

Paper Mills Assocn., Indian, India Exchange, India Exchange Place, Calcutta 700001.

Petroleum Traders, Fedn. of All India, 1/1, Vansittart Row, Calcutta 700001.

Pharmaceutical Assocn., Indian, 84, Chowringhee Rd., Calcutta 700020.

Photographic Traders' Assocn., East India, 3/1/2, Armenian St., Calcutta 700001.

Pipe & Fittings Mfrs. Assocn., Indian, 21B, Canning St., Calcutta 700001.

Pipe Mfrs.' Assocn., Cast Iron Spun, 6, N. Subhas Rd., Calcutta 700001.

Plastic Mfrs. Assocn., Small Scale, 2, Ganesh Ch. Ave., Calcutta 700013.

Plastics Fedn., Indian, 13/A, Govt. Place East, Calcutta 700001.

Plywood Mfrs.' Assocn. of India, 23, R. N. Mookerjee Rd., Calcutta 700001.

Plywood Mfrs.' Assocn. of West Bengal, 22, Strand Rd., Calcutta 700001.

Pottery Mfrs.' Assocn., All India, C/o A.I.M.O., Ilaco House, 1 & 3, Brabourne Rd., Calcutta 700001.

Poultry Industry, Eastern India Assocn. of, 57-B, Townsend Rd., Calcutta 700025.

Powerloom Co-op. Socy. Assocn., West Bengal State, [illegible] Ballygunj [illegible], Calcutta 700019.

Powerloom Owners' Assocn., 8, Old Court House St., Calcutta 700001.

Powerloom Units of West Bengal Ltd., Assocn. of Small, P-11, New Howrah Bridge Approach Rd., Calcutta 700001.

Printers Assocn., All Bengal, 66, Grey St., Calcutta 700006.

Printers' Assocn., Bengal, 32, Acharya Prafulla Chandra Rd., Calcutta 700009.

Printers Assocn., Small Scale, 25, R. K. Mistry Lane, Calcutta 700012.

Productivity Council, Calcutta (National), 9, Syed Amir Ali Ave., Calcutta 700017.

Publishers' & Booksellers' Assocn. of Bengal, 93, Mahatma Gandhi Rd., Calcutta 700007.

Radio & Electronics Assocn., All India, 3 B, Madan St., Calcutta 700013.

Refractory Makers' Assocn., Indian, 6, Netaji Subhas Rd., Calcutta 700001.

Refrigeration Traders' Assocn., C/o Air Conditioning Corpn. Ltd., 17, Taratolla Rd., Calcutta 700053.

Rehabilitation Industries & Mktg. Fedn., P-31, C.I.T. Rd., Calcutta 700014.

Rice Mills Assocn., East India, 8, Old Court House St., Calcutta 700001.

River Transport Assocn., Calcutta, 6, Netaji Subhas Rd., Calcutta 700001.

River Transport Assocn. Ltd., 9/12, Lall Bazar St., Calcutta 700001.

Rolling Mills Assoc., West Bengal, 3/1/2, Armenian St., Calcutta 700001.

Road Transport, Indian Instt. of, 1/2, Lord Sinha Rd., Calcutta 700016.

Roads & Transport Devpt. Assocn., Indian, 1, Chowringhee Terrace, Calcutta 700020.

Rope Mfrs. Assocn., Indian, India Exchange, India Exchange Place, Calcutta 700001.

Rubber Industries Assocn., All India, 7, Waterloo St., Calcutta 700069.

Rubber Inds. Assocn. of India, Small Scale, 5, Prafulla Sarkar St., Calcutta 700013.

Salt Assocn., Ltd., Calcutta, 11, Chittaranjan Ave., Calcutta 700001.

Salt Dealers' Assocn., Calcutta, 3-B, Beniatolla St., Calcutta 700001.

Saw Mills' Assocn. of Eastern India, 23, R. N. Mookerjee Rd., Calcutta 700001.

Screw Mfrs. Assocn., Precision, 3A, Balaram Dey St., Calcutta 700006.

Sea Shell Industries Assocn., 113, Keshab Sen St., Calcutta 700009.

Sewing Machine Industrial Socy. Ltd., Hindustan Co-op., 117, Dharamtolla St., Calcutta 700013.

Share & Stock Exchange Assocn., Ltd., Bengal, 21B, B. R. B. Basu Rd., Calcutta 700001.

Ship Contractors' Assocn., Calcutta Master, 23, R. N. Mookerjee Rd., Calcutta 700001.

Shipowners Assocn., Indian Small, 23, R. N. Mookerjee Rd., Calcutta 700001.

Shippers' Assocn., Eastern India, 6, Netaji Subhas Rd., Calcutta 700001.

Silicate Mfrs. Assocn., All India, 1A, S. N. Banerjee Rd., Calcutta 700013.

Silk Assocn. of India, 8, Old Court House St., Calcutta 700001.

Skins & Leather Assocn., Indian, 6, Netaji Subhas Rd., Calcutta 700001.

Small Industries, (Eastern Region), Fedn. of Assocns. of, P31, CIT Rd., Calcutta 700014.

Small and Medium Industries Fedn., West Bengal, P-11, Mission Row Extn., Calcutta 700001.

Soap Makers' Assocn., Eastern Small Scale, 19 Chandni Chowk St., Calcutta [illegible]

Soap and Toiletries Makers' Assocn., Indian, 23, R. N. Mookerjee Rd., Calcutta 700001

Spices Dealers' Assocn., Bengal, 24, Maharshi Debendra Rd., Calcutta 700007.

Stationery and Office Equipment Assocn. of India, 23, R. N. Mookerjee Rd., Calcutta 700001.

Steel Exporters' Assocn., 10, Camac St., Calcutta 700017.

Steel Fabricators & Distributors, Assocn. of, 46C, Chowringhee Rd., Calcutta 700012.

Steel Furnace Assocn. of India, 1-A, Mona Lisa, 17, Camac St., Calcutta 700017.

Steel Importers' Assocn. of India, India Exchange, India Exchange Place, Calcutta 700001.

Steel Merchants' Assocn. of India, India Exchange 8th Flr., 4, I. E. Place, Calcutta 700001.

Steel Re-Rollers' Assocn., All India, 3/1/2, Armenian St., Calcutta 700001.

Steel Wire Mfrs.' Assocn. of India, 6, N. Subhas Rd., 2nd Flr., Calcutta 700001.

Stevedores' Assocn., Master, 6, Netaji Subhas Rd., Calcutta 700001.

Stock Exchange Assocn. Ltd., Calcutta, 7, Lyons Range, Calcutta 700001.

Strawboard Mfrs.' Assocn., Indian, 8, Old Court House St., Calcutta 700001.

Sugar Merchants' Assocn., Bengal, 2-C, Ramkumar Rakhit Lane, Calcutta 700007.

Sugar Mills Assocn., Indian, India Exchange, Calcutta 700001.

Tea Assocn., Indian, Royal Exchange, 6, Netaji Subhas Rd., Calcutta 700001.

Tea Assocn. of India, 4, India Exchange, India Exchange Place, Calcutta 700001.

Tea Exporters Assocn., 23, R. N. Mookerjee Rd., Calcutta 700001.

Tea Planters' Assocn., Indian, Post Box No. 74, Jalpaiguri 735101.

Textile Assocn. (India), 1/1A, Dr. Amal Roychowdhury Lane, Calcutta 700009.

Tobacco Merchants' Assocn., Calcutta Biri, 1, Rupchand Roy St., Calcutta 700007.

Tool Mfrs. Assocn., Small, 5, Clove Row (Room No. 41), Calcutta 700001.

Toy Industries Assocn., Small Scale, 8/36, Fern Rd., Calcutta 700019.

Welding Dealers' Assocn., Indian, 3/1/2, Armenian St., Calcutta 700001.

Wine Assocn., Calcutta, 1, Lindsay St., Calcutta 700016.

Wine, Spirit and Beer Assocn. of India, 6, N. Subhas Rd., Calcutta 700001.

Wire Industries Assocn., Indian, 222, Rabindra Sarani, Calcutta 700007.

Wire Rope Mfrs.' Assocn., Indian, 6, N. Subhas Rd., Calcutta 700001.

Yarn Merchants' Assocn., Calcutta, 89, Cross St., Calcutta 700007.

Zinc Oxide Mfrs.' Assocn., Indian, India Exchange, India Exchange Place, Calcutta 700001.

CULTURAL, SOCIAL AND PROFESSIONAL

Agri-Horticultural Socy. of India, 1, Alipore Rd., Calcutta 700027.

Agricultural Socy. of India, 35, Ballygunge Circular Rd., Calcutta 700019.

Animals Socy., All Lovers of, 30, Chowringhee Mansions, Kyd St., Calcutta 700016.

Anthropological Socy., Indian, C/o Anthropological Survey of India, 27, J. L. Nehru Mrg., Calcutta 700013.

Arts & Culture Academy, 122B, Ananda Palit Rd., Calcutta 700014.

Arya Samiti, Arya Samiti Rd., Behala, Calcutta 700034.

Astrological Assocn. of India, 45A, S. P. Mukherjee Rd., Calcutta 700026.

Astrological and Astronomical Socy., All India, 88/2A, R. A. Kidwai Rd., Calcutta 700013.

Bible Socy. of India and Ceylon, 23, J. L. Nehru Rd., Calcutta 700013.

Bijnan Parishad, Bangiya, P. 23, R. R. K. St., Calcutta 700006.

Billiards Assocn. and Control Council of India, C/o Great Eastern Hotel, Old Court House St., Calcutta 700001.

Biological Science, Indian Assocn. of, Life Science Centre, Calcutta Univ., 35, Ballygunge Circular Rd., Calcutta 700019.

Biophysical Socy., Indian (IBS), Saha Instt. of Nuclear Physics, 92, A. Prafulla Chandra Rd., Calcutta 700009.

Blood Bank, Calcutta, 186, Rash Behari Ave., Calcutta 700029.

Bohurupee, 7, Lower Ring, Calcutta 700017.

Botanical Socy. of Bengal, 35, Ballygunge Circular Rd., Calcutta 700019.

Brastachari Socy., Bengal, 191/1, B. B. Ganguly St., Calcutta 700012.

British Indian Assocn., 18, British Indian St., Calcutta 700001.

Buddhist Assocn., Bengal, 1, Buddhist Temple St., Calcutta 700001.

Buddhist Socy. of India and Buddhist Mission of India, 31/1, Baghbazar St., Calcutta 700003.

Cardiological Socy. of India, 3, Creek Row, Calcutta 700014.

Carrom Assocn., West Bengal, 34-A, Dharmatala St., Calcutta 700013.

Ceramic Socy., Indian, Central Glass & Ceramic Research Institute, Calcutta 700032.

Ceramics, Indian Instt. of, C/o Central Glass & Ceramic Instt., Calcutta 700032.

Chartered Accountants of India, Instt. of, 7, Russel St., Calcutta 700071.

Chemical Engineers, Indian Instt. of, Raja Subodh Mullick Rd., Calcutta 700032.

Chemical Socy., Indian, 92, Acharya Prafulla Chandra Rd., Calcutta 700009.

Chemists (India), Insttn. of, Chemical Dept., Medical College, Calcutta 700012.

Child Health & Community Welfare, Socy. for, 13D, Beadon St., Calcutta 700006.

Children in India, Socy. for the Protection of, 2B, Camac St., Calcutta 700016.

Children's Development Council, 3, S. H. Goenka St., Calcutta 700007.

Children's Little Theatre, Aban Mahal, Gariahat Rd., Calcutta 700019.

Children's Sports Assocn., All Bengal, 189/1, Kasba Rd., Calcutta 700042.

Christian Literature Centre, Bengal, 65, M. G. Rd., Calcutta 700007.

Church Council, Bengal, 16, L. L. Rai Sarani, Calcutta 700020.

Company Secretaries of India, Instt. of (Eastern India Regnl. Council), Everest House, 46C, Chowringhee Rd., Calcutta 700071.

Consulting Engineers, Instt. of, 9, Hastings St., Calcutta 700001.

Consumers' Assocn., 64/1, Tollygunge Circular Rd., Calcutta 700053.

Cost and Works Accountants of India, Instt. of, 12, Sudder St., Calcutta 700016.

Dakshinee, 'Dakshinee Bhavan', 1, Deshapriya Park West, Calcutta 700026.

Depressed Classes League, Bengal Provincial, 12, Arpuli Lane, Calcutta 700012.

Dislodged Minorities Assocn., All Bengal, 75/2/A, Hari Ghose St., Calcutta 700006.

Economic Affairs, Indian Council of, 1 & 2, Hare St., Calcutta 700001.

Electron Microscope Socy. of India (EMSI), Biophysics Laboratory, 37, Belgachia Rd., Calcutta 700037.

Engineers, Assocn. of, 24, Netaji Subhas Rd., Calcutta 700001.

Engineers, Indian Socy. of, 16, India Exchange Place, Calcutta 700001.

Engineers (India), Insttn. of, 8, Gokhale Rd., Calcutta 700020.

Family Planning Assocn. of India, Kohinoor 38, 108 Park St., Calcutta 700016.

Film Societies of India, Fedn. of, C7, 3, Chittaranjan Avenue, Calcutta 700072.

Film Socy., Calcutta, B/5, Bharat Bhawan, 3, Chittaranjan Ave., Calcutta 700072.

Folklore Socy., Indian, 3, British Indian St., Calcutta 700001.

Football Assocn., Indian, 11/1, Sooterkin St., Calcutta 700013.

Free Enterprise, Forum of, 38/2, Nirmal Chandra St., Calcutta 700013.

Foundrymen, Instt. of Indian, 4/2, Middleton St., Calcutta 700001.

Fuel, Indian Instt., of, 2E. Raishree, 6, Hastings Rd., Calcutta 700027.

Gaudiya Mission, Sri Gaudiya Math, 16A, Kali Prasad Chakravarthy St., Calcutta 700003.

Geographical Socy. of India, 35, Ballygunge Circular Rd., Calcutta 700019.

Geohydrologists, Indian Assocn. of, C/o Central Ground Water Board, 24 Park St., Calcutta 700016.

Geological, Mining and Metallurgical Socy. of India, Geology Dept., Calcutta Univ., Calcutta 700019.

Gujarati Samaj, Calcutta, P5, Canning St., Calcutta 700001.

Hind Seva Samity, 93, M. Gandhi Rd., Calcutta 700007.

Hindu Satkar Samity, 93, Mahatma Gandhi Rd., Calcutta 700007. A Society for cremating dead bodies of poor and friendless Hindus.

Homoeopathic Medical Assocn. of India, 77, B. B. Ganguli St., Calcutta 700012.

Horsemastership, Indian Socy. of Equitation &, Ballygunge Military Camp, Ballygunge Circular Rd., Calcutta 700019.

Indo-GDR Friendship Socy., 27G, College St., Calcutta 700073.

Indo-Soviet Cultural Socy., 77, Lenin Sarani, Calcutta 700013.

Industrial Engineers (India), Insttn. of, Calcutta Technical School, 110, S. N. Banerjee Rd., Calcutta 700013.

Industrial Welfare Instt., Indian, 19, Gariahat Rd., Calcutta 700019.

Instrumentation Scientists & Technologists (India), Insttn. of, Deptt. of Electl. Engg., Jadavpur Univ., Calcutta 700032.

Insurance Instt., Indian, 8, Madan St., Calcutta 700013.

Iran Socy., 12, Dr. M. Ishaque St., Calcutta 700016.

Journalists' Assocn., Indian, 249-B, B. B. Ganguly St., Calcutta 700012.

Khilafat Committee, Calcutta, 8, Zakaria St., Calcutta 700001.

Law Instt. (W. Bengal Unit), Indian, 2 & 3, K. S. Roy Rd., Calcutta 700001.

Leather Technologists' Assocn., Indian, Mercantile Bldgs., Lall Bazar, Calcutta 700001.

Legal Aid Socy., Indian, 2, Canal St., Calcutta 700014.

Library Assocn., Bengal, P/134, CIT Scheme, 52, Calcutta 700014.

Maha Bodhi Socy. of India, 4-A, Bankim Chatterji St., Calcutta 700073. *Centres:* Sarnath, Gaya, New Delhi, Buddhagaya, Bombay, Madras, Lucknow, Ajmer, Kalimpong, Cuttack & Sanchi.

Mahila Seva Samity, 8, Government Place (N), Calcutta 700001.

Malayalee Samajam, Calcutta, 195/3B, R.B. Avenue, Calcutta 700019.

Management Assocn., Calcutta, 1, Shakespeare Sarani, Calcutta 700016.

Manimela Mahakendra, Rabindra Sarobar Stadium, Block 11, Room V, Calcutta 700029. A child welfare agency.

Marwari Fedn., All India, 152-B, M. Gandhi Rd., Calcutta 700007.

Materials Management, Indian Assocn. of, C/o Dunlop India Ltd., 62A, Mirza Ghalib St., Calcutta 700016

Mathematical Assocn., Deptt. of Mathematics, Jadavpur Univ., Calcutta 700032.

Mathematical Socy., Calcutta, 92, Acharya P Chandra Rd., Calcutta 700009

Medical Assocn., Indian, W. Bengal State Branch 67, Lenin Sarani, Calcutta 700013

Medical Council, West Bengal, 8, Lyons Range, Calcutta 700001.

Metals, Indian Instt. of, 2, Sambhunath Pandit St., Calcutta 700020.

Mining, Geological and Metallurgical Instt. of India, 29, Chowringhee Rd., Calcutta 700016.

Moral & Social Hygiene, Assocn. for, 402/1A, N.S.C. Bose Rd., Calcutta 700047.

Mountaineering — Parvat Abhiyatri Sangh (Himalayan Climber's Club), Anand Bazar Patrika House, 6, P. Sarkar St., Calcutta 700001.

Music & Cultural Socy., W. Bengal, P1, CIT Scheme, LXXII, Gariahat Rd., Calcutta 700029.

Muslim Welfare Socy., 98, Rabindra Sarani, Calcutta 700001.

Nurses Assocn., Calcutta, 65-A, Dharamtolla St., Calcutta 700013.

Nursing Council, West Bengal, 8, Lyons Range, Calcutta 700001.

Operational Research Socy. of India, 9/3, Mandeville Gardens, Calcutta 700019.

P. E. N. All India Writers' Assocn. (W. Bengal Branch), 72, Hindustan Park, Calcutta 700029.

Personnel Management, Indian Instt. of, Apeejay House, Block-B, Park St. Calcutta 700016.

Philosophical Congress, Indian, Visva Bharati University, Santiniketan 731235.

Pharmacy Council, West Bengal, 8, Lyons Range, Calcutta 700001.

Photobiology Group (IPB), Indian, Deptt. of Chemistry, Jadavpur Univ., Calcutta 700032.

Photographers, Assocn. of, 224A, Vivekananda Rd., Calcutta 700006.

Photography, Indian Instt. of, 32, A. M. Rd., Calcutta 700020.

Physical Culture Assocn., All Bengal, 5, Krishna Bihari Sen St., Calcutta 700007.

Physical Education & Recreation, National Assocn. of, 24C, Amherst Row, Calcutta 700073.

Pinjrapole Socy., Calcutta, 34, Armenian St., Calcutta 700001.

Primary Teachers' Assocn., All Bengal, 89, M.G. Road, Calcutta 700007.

Psycho-Analytical Socy., 14, Parsibagan Lane, Calcutta 700002.

Psychotherapeutical Socy., Indian, Sch. 49, P-23, CIT Rd., Calcutta 700014.

Public Health Assocn., Indian, 110, Chittaranjan Ave., Calcutta 700012.

Purchasing Officers' Assocn. of India, 88, Short St., Calcutta 700017.

Quality Control, Indian Socy. for, India Exchange, 7th Floor, Calcutta 700001.

Ramakrishna Math and Mission, P. O. Belur Math 711202, Howrah Dist.

Red Cross Socy., Indian (W. Bengal State Branch), 5 & 6, Govt. Place North, Calcutta 700001.

Relief Socy., Bengal, 36, M.G. Rd., Calcutta 700007.

Safety First Assocn. of India (Bengal Provincial Branch), 77A, Park St., Calcutta 700016.

Salvation Army, 37, Lenin Sarance, Calcutta 700013.

School Sports Assocn., W. Bengal, 1, Raja Sitaram Rd., Calcutta 700026.

Science, Indian Assocn. for the Cultivation of, 2A & 2B, R.S.C. Mullick Rd., Jadavpur, Calcutta 700032.

Science Congress Assocn., Indian, 64, 14, Dr. B. Guha St., Calcutta 700017.

Scouts and Guides, Bharat, 5, Govt. Place North, Calcutta 700001.

Seamen of India, National Union of, 10/2, Kabitirtha Sarani, Calcutta 700023.

Secretaries, Instt. of Chartered (India Association), C/o Wellman Incandescent India Ltd., 8, Harrington St., Calcutta 700016.

Sevak Samaj, Bharat, 33, B. K. Paul Ave., Calcutta 700005.

Sevasram Sangha, Bharat, 211, R. B. Avenue, Calcutta 700019.

Shishu Niketan, 32/10 A, Beadon St., Calcutta 700006.

Social Action, Church Auxiliary for, 5, Russell St., Calcutta 700016.

Social Service Centre, W. Bengal, 20/2C, Canal West Rd., Calcutta 700006.

Social Welfare, Indian Council of, C/o Viharilal Coll. of Home & Social Science, Alipore, Calcutta 700027.

Special Libraries & Information Centre, Indian Assocn. of, Albert Hall, 15, College St., Calcutta 700012.

Sports, West Bengal State Council of, 8, Lyons Range, Calcutta 700001.

St. John's Ambulance Brigade, 5, Govt. Place North, Calcutta 700001.

Statistical Assocn., Calcutta, 35, Ballygunge Circular Rd., Calcutta 700019.

Swimming Assocn., National, Pavilion, Azad Hind Bagh, Calcutta 700006.

Table Tennis Assocn., Bengal, 34/1, Lala Lajpatrai Sarani, Calcutta 700020.

Tamil Sangham, Bharathi, 93-A, Rashbehari Ave., Calcutta 700026.

Teachers' Assocn., All Bengal, 15, Bankim Chatterjee St., Calcutta 700073.

Teachers' Organisation, All India Fedn. of University & College, 89, M. Gandhi Rd., Calcutta 700007.

Theoretical & Applied Mechanics, Indian Socy. of, Indian Institute of Technology, Kharagpur 721301.

Theosophical Fedn., Bengal, 4/3A, Bankim Chatterjee St., Calcutta 700073.

Theosophical Socy., 161, Acharya J. Bose Rd., Calcutta 700014.

Tuberculosis Assocn., Bengal, 24, Dr. Sundari Mohan Ave., Entally, Calcutta 700014.

Tuberculosis Relief Assocn., 73, Dharamtolla St., Calcutta 700013.

United Kingdom Citizens' Assocn., 51, Chowringhee Rd., Calcutta 700016.

Vivekananda Mission, 10, Ramakrishna Lane, Baghbazar, Calcutta 700003.

Vivekananda Socy., 151, Vivekananda Rd., Calcutta 700006.

Waterfront Workers, National Union of, 15, Coal Dock Rd., Calcutta 700043.

West Bengal, Andaman & Nicobar Charitable Socy., 9, Clive Row, Calcutta 700001.

Women's Conference, All India, C.I.T. Scheme IV, Beliaghata Main Rd., Calcutta 700010.

Women's Union, All Bengal, 89, Elliot Rd., Calcutta 700016.

Writers' Guild, 5, Dwarakanath Tagore Lane, Calcutta 700007.

Y.M.C.A., 25, Chowringhee Rd., Calcutta 700013.

Youth Forum, National, 4, Synagogue St., Calcutta 700001.

Y.W.C.A., 134, S. N. Banerjee Rd., Calcutta 700013.

Zoological Socy. of India, 34, Chittaranjan Ave., Calcutta 700012.

CHAMBERS OF COMMERCE

ANDHRA PRADESH

Amalapuram Chamber of Commerce and Industry, Amalapuram 533201. (East Godavari Dist.).

Andhra Chamber of Commerce, 68-B, Rashtrapati Rd., Secunderabad 500003.

Andhra Film Chamber of Commerce, Andhraratna Rd., Gandhinagaram, Vijayawada 520003.

Bhimavaram Chamber of Commerce, Bhimavaram 534201.

Chamber of Commerce, Tadepalligudem 534101.

Chamber of Commerce, Main Rd., Vizianagaram 531201.

Cocanada Chamber of Commerce, Commercial Rd., Kakinada 533001.

Dist. Chamber of Commerce, Chittoor 517001.

Federation of Andhra Pradesh Chambers of Commerce & Industry, 11-6-841, Red Hills, Post Box No. 14, Hyderabad 500004. *Pres.:* Tokarshi Lalji Kapadia; *Secy.:* M. Venkata Rao.

Godavari Chamber of Commerce, Vallabhbhai St., Kakinada 533001.

Gouthami Chamber of Commerce, Main Rd., Rajahmundry 533101.

Indian Chamber of Commerce, P. Box 67, Guntur 522001.

Krishna District Chamber of Commerce, Fort Rd., Machilipatnam 521001.

Kurnool District Chamber of Commerce, No. 1/8, Main Bazar, Peta, Kurnool 518001.

Mica Chamber of Commerce, Gudur 524104 (Nellore Dist.).

Nellore Chamber of Commerce, Tobacco Field, Nellore 524001.

Palakol Chamber of Commerce, Palakol 534260 (W. Godavari Dist.).

Rajahmundry Chamber of Commerce Ltd., Khaidakotla St., Rajahmundry 533101.

Vijayawada Chamber of Commerce & Industry, 42, Kaleswararao Mkt., Vijayawada 520001.

Vizagapatam Chamber of Commerce, 25/8/170, Main Rd., Visakhapatnam 530001.

Warangal Chamber of Commerce, 29/67, Grain Mkt. Area, Warangal 506002.

West Godavari Fedn. of Chambers of Commerce & Industry, Plantains Bazar, Main Rd., Eluru 534001.

ASSAM & MEGHALAYA

Assam Chamber of Commerce, Bara Bazar Rd., Shillong 793002.

Assam Chamber of Commerce & Industry, Morello Bldg., Shillong 793001.

Assam National Chamber of Commerce, C/o Orient (India) Ltd., Ulubari, Gauhati 781007.

Frontier Chamber of Commerce, Barabazar Rd., Shillong 793002.

Kamrup Chamber of Commerce, Kamrup Chamber Rd., Gauhati 781001.

National Chamber of Commerce, B. L. Khemka Rd., Tinsukia 786125.

Nowgong Chamber of Commerce, Haibargaon, Nowgong 782001.

Upper Assam Chamber of Commerce, Jorhat 785001.

BIHAR

Bhagalpur Chamber of Commerce, Bhagalpur 812002.

Bihar Chamber of Commerce, Judges' Court Rd., P.O. Box No. 71, Patna 800001. *Pres.:* G. S. Dalmia; *Secy. Genl.:* C. M. Saxena.

Central Bihar Chamber of Commerce, Marwari Panchayat, Dharamshala Rd., Gaya 823001.

Chas Bokaro Chamber of Commerce & Industries, Chas 827013. (Dhanbad Dist.).

Chotanagpur Chamber of Commerce & Industries, Main Rd., Ranchi 834001.

Darbhanga Divisional Chamber of Commerce, Darbhanga 846004.

Eastern Bihar Divisional Chamber of Commerce & Industries, Bhagalpur 812002.

Jamshedpur Chamber of Commerce, 35, Laxmi Mansion, Jamshedpur 831001.

Koshi Divisional Chamber of Commerce & Industry, Saharsa 852201.

Monghyr Chamber of Commerce, Bekapur Rd., Monghyr 811201.

North Bihar Chamber of Commerce & Industry, Muzaffarpur 842001.

North Eastern Bihar Chamber of Commerce & Industries, Katihar 854105.

Patna Divisional Chamber of Commerce & Industry, S. P. Varma Rd., Patna 800001.

Shahbad Chamber of Commerce & Industry, Jail Rd., Arrah 802301.

South Bihar Chamber of Commerce, [illegible] Deoghar 814112.

Textile Merchants Chamber of Commerce, Bhagalpur 812002.

DELHI

Associated Chamber of Commerce & Industry of India, Allahabad Bank Bldg., 17, Parliament St., New Delhi 110001. *Pres.:* F. A. A. Jasdanwalla; *Alternate Pres.:* A. L. Mudaliar; *Secy.:* C. Balakrishnan.

Delhi Chamber of Commerce, Dilbar Bldg., Paharganj, New Delhi 110055.

Delhi Junior Chamber, 12, Arya Niwas, Golo Market, New Delhi 110001.

Federation of Indian Chambers of Commerce & Industry, Federation House, Tansen Marg, New Delhi 110001. *Pres.:* Pravinchandra V. Gandhi; *Vice-Pres.:* H. S. Singhania; *Secy.-Genl.:* P. Chentsal Rao.

Indo-American Chamber of Commerce (N. Indian Council), Phelps Bldg., 9-A, Connaught Place, New Delhi 110001.

Indo-German Chamber of Commerce, 8-FG, Himalaya House, 2, Kasturba Gandhi Mrg., New Delhi 110001.

Indo-Polish Chamber of Commerce, Phelps Bldg., Connaught Place, New Delhi 110001.

International Chamber of Commerce, Indian National Cttee., Federation House, New Delhi 110001. *Pres.:* B. P. Poddar; *Vice-Pres.:* Ramakrishna Bajaj; *Secy.-Genl.:* P. Chentsal Rao.

Punjab, Haryana and Delhi Chamber of Commerce & Industry, Phelps Bldg., 9-A, Connaught Place, New Delhi 110001. *Chmn.:* Bansi Dhar; *Dy. Chmn.:* C. K. Hazari; *Secy.-Genl.:* M. L. Nandrajog.

Punjab Merchants' Chamber, 45, Khurshid Mkt., Sadar Bazar, Delhi 110006.

United Chamber of Trade Associations, A. Chand Mrg., Katra Rathi, Delhi 110006.

GOA

Goa Chamber of Commerce & Industry, P. Box No. 59, Panaji 403001.

GUJARAT

All India Sindhi Chamber of Commerce & Industry, 6, Parasram Chambers Bldg., Mirghawad, Revdi Bazar, Ahmedabad 380001.

Broach Chamber of Commerce & Industry, Lallubhai Chakla, Bharuch 392001.

Central Gujarat Chamber of Commerce, Federation Bldg., Race Course Rd., Vadodara 390009.

Gandhidham Chamber of Commerce & Industry, BBZ-N-41, Gandhidham 370201.

Gujarat Chamber of Commerce & Industry, Gujarat Chamber Bldg., Ranchhodlal Rd., Ahmedabad 380009. *Pres.:* Jehangir R. J. Cama; *Vice-Pres.:* Priyakant T. Munshaw; *Hon. Secy.:* Nalinbhai K. Patel.

Jetpur Chamber of Commerce, Mahatma Gandhi Rd., Jetpur 360370.

Junagadh Chamber of Commerce, Mahalaxmi St., Junagadh 362001.

Morvi Chamber of Commerce & Industries, P. Box No. 5, Morvi 363641.

Nawanagar Chamber of Commerce, Digvijaysingh Chamber Bldg., Grain Mkt., Jamnagar 361001.

Panchmahal Chamber of Commerce, Station Rd., Godhra 389001.

Porbandar Chamber of Commerce, Manek Chowk, Porbandar 365075.

Saurashtra Chamber of Commerce, Old Darbargadh, Bhavnagar 364001.

Savarkundla Chamber of Commerce, Savarkundla 364515.

Shri Zalawad Chamber of Commerce & Industries, Main Rd., Surendranagar 363001.

Sorath Chamber of Commerce, Vakharia Bazar, Veraval 362265.

Southern Gujarat Chamber of Commerce & Industry, Samruddhi, Nanpura, Surat 395001.

Surat Junior Chamber, Vasundhara, Navapura, Parsi Sheri, Surat 395001.

HARYANA

Haryana Chamber of Commerce, Mandi Dabwali 125104 (Hissar Dist.).

Ludhiana Chamber of Commerce & Industry, E-23, Industrial Area, Yamunanagar 135001.

Northern India Chamber of Commerce, Desi Beopar Mandal, Ambala Cantt. 133001.

JAMMU & KASHMIR

Chamber of Commerce, Jammu 180001.

Kashmir Chamber of Commerce & Industry, Residency Rd., Srinagar 190001.

KARNATAKA

Asian Chamber of Commerce, "Dhammapada", 1st Main V Block, Kumara Park West, Bangalore 560020.

Bangalore Chamber of Commerce, 112, Gandhi Bazar, Bangalore 560004.

Bangarpet Chamber of Commerce, Bangarpet 563114.

Belgaum Chamber of Commerce & Industries, 673, Raviwar Peth, Belgaum 590002.

Bellary District Chamber of Commerce, Bangalore Rd., Bellary 583101.

Chamber of Commerce & Industry, Prabha Pictures House Bldg., Hanumantha Rao St., Mysore 570001.

Chitradurga Merchants' Chamber, Chitradurga 577501.

Dharwar Chamber of Commerce, Dharwar 580001.

Federation of Karnataka Chambers of Commerce & Industry, Kempegowda Rd., Bangalore 560009. *Pres.:* V. N. Tallam; *Vice-Pres.:* N. Bhoomanand Manay; *Dy. Secy.:* A. R. D'Silva.

Hospet Chamber of Commerce, Near Town Reading Room, Hospet 583201.

Hyderabad Karnatak Chamber of Commerce & Industry, No. 7-671, Nehru Ganj Rd., Gulbarga 585104.

Kanara Chamber of Commerce, P. Box No. 116, Bunder, Mangalore 575001. *Pres.:* S. Ramachandra Kamath; *Vice-Pres.:* M. D. Kushe; *Hon. Secs.:* K. Venkat Rao, V. M. Pai.

Karnatak Chamber of Commerce & Industry, Jayachamaraj Nagar, Hubli 580020. *Pres.:* J. P. Javali; *Vice-Press.:* R. M. Meharwade, V. M. Mirji, M. V. S. Burdekar; *Hon. Secy.:* S. I. Shettar.

Mahalingpur Chamber of Commerce & Industries, Mahalingpur 587312. (Bijapur Dt.).

Udipi Chamber of Commerce, Ind. & Agriculture, Mukund Nivas, Udipi 576101.

KERALA

Calicut Chamber of Commerce & Industry, 4th Gate Rd., Calicut 673001.

Chamber of Commerce, Arecal Bldgs., M. C. Rd., Kottayam 686001.

Chamber of Commerce, Kunnamkulam 680503. Trichur Dist.

Chamber of Commerce, Trichur 680001.

Chamber of Commerce, Chalai, Trivandrum 695001.

Cochin Chamber of Commerce & Industry, Bristow Rd., Willingdon Island, Cochin 682003. *Pres.:* M. S. Parikh; *Secy.:* P. Sethuram.

Ernakulam Chamber of Commerce, Chamber Bldg., Shanmukham Rd., Ernakulam 682011.

Indian Chamber of Commerce, Kottukulam Rd., P.O. Box No. 236, Cochin 682002. *Pres.:* K. M. K. Abdulla; *Vice-Pres.:* A. Madhavan ; *Secy.:* K. M. Devarajan.

Irinjalakuda Chamber of Commerce, Irinjalakuda 680121.

Malabar Chamber of Commerce, Calicut 673001. *Pres.:* M. A. Unoorkutty ; *Vice-Press.:* P. P. Abubacker Koya, V. P. Menon ; *Hon. Secs.:* V. Hassan Koya, K. Asokan.

North Malabar Chamber of Commerce, Fort Rd., Cannanore 670001.

North Travancore Chamber of Commerce, Bank of Alwaye Bldgs., Alwaye 683101.

Palghat Chamber of Commerce, Palghat 678001. *Pres.:* A. Achutha Bhaskar; *V.-Press.:* V. K. Ramalingam Chettiar, P. I. Simon; *Hony. Secs.:* R. S. P. Swaminathan, U. P. Ramakrishnan.

Regional Chamber of Commerce, Big Bazar, Palghat 678001.

Travancore Chamber of Commerce, Alleppey 688001.

MADHYA PRADESH

Adiwasi Chamber of Commerce, Alirajpur 457887.

Akaltara Chamber of Commerce, Akaltara 495552 (Raipur Dist.).

Bhilai Chamber of Commerce & Industries, Near Nehru Cultural Hall, Bhilai 490001.

Bhopal Chamber of Commerce & Industry, Bhopal 462001.

Central India Chamber of Commerce & Industry, Bambakhana, Ujjain 456001.

Chamber of Commerce, Ratlam 457001.

Federation of M. P. Chambers of Commerce & Industry, 33, Malaviyanagar, Bhopal 462003.

Junior Chamber of Commerce, Chameli Chowk, Sagar 470001.

Madhya Pradesh Chamber of Commerce & Industry, Chamber Bhavan, Lashkar, Gwalior 474001. *Pres.:* D. P. Mandelia ; *Vice-Pres.:* S. Garg ; *Hon. Secy.:* B. K. Gupta.

Mahakoshal Chamber of Commerce, Jawaharganj, Jabalpur 482002.

Malwa Chamber of Commerce, Cloth Mkt., 77, Sitlamata Bazar, Indore 452002.

Raipur Chamber of Commerce & Industry, Sadar Bazar, Raipur 492001.

MAHARASHTRA

Bombay

All India Exporters' Chamber, Janmabhoomi Chambers, Fort St., Bombay 400001.

Belgo-Indian Chamber of Commerce & Industry, Taj Bldg., 210, Dr. D. Naoroji Rd., Bombay 400001.

Bharat Merchants' Chamber, Bharat Chamber Bhavan, Kalbadevi Rd., Bombay 400002.

Bombay Chamber of Commerce & Industry, Mackinnon Mackenzie Bldg., B. Estate, Bombay 400038. *Pres.:* M. L. Apte ; *Vice-Pres.:* Kamaljit Singh ; *Secy.:* B. P. Gunaji.

East India Chamber of Commerce Ltd., Patwa Chawl, Sheikh Memon St., Bombay 400002.

Federation of Indian Chamber of Commerce & Industry, 76, Veer Nariman Rd., Bombay 400020.

Handicraft Exports Chamber, Ganesh Bhuvan, 89A Dadyseth Agiary St., Bombay 400002.

Hindustan Chamber of Commerce, 342, Kalbadevi Rd., Bombay 400002.

Indian Merchants' Chamber, 76, Veer Nariman Rd., Bombay 400020. *Pres.:* V. B. Haribhakti ; *Vice-Pres.:* Ramkrishna J. Bajaj ; *Secy.:* Ramu Pandit.

Indo-American Chamber of Commerce, Vulcan Insurance Building, Veer Nariman Rd., Bombay 400020. *Pres.:* David A. Artko ; *Secy.-Genl.:* Arun C. Vakil.

Indo-French Chamber of Commerce & Industry, Bakhtawar, 2nd Flr., Nariman Point, Bombay 400021. *Pres.:* Harish Mahindra ; *Vice-Pres.:* Andre Kettler ; *Vice-Pres. (France):* Michel Boulat ; *Secy.-Genl.:* Minoo P. Vazifdar.

Indo-German Chamber of Commerce, Vulcan Insurance Bldg., Veer Nariman Rd., Bombay 400020. *Pres.:* G. Wallbrecht ; *Vice-Pres.:* F. A. A. Jasdenwalla ; *Exec. Dir.:* Dr. G. Krueger.

Iron, Steel & Hardware Merchants' & Manufacturers' Chamber of India, Loha Bhavan, P. D'Mello Rd., Bombay 400009.

Italian Chamber of Commerce for India, Vaswani Mansions, D. Vachha Rd., Bombay 400020.

Maharashtra Chamber of Commerce, 12, Rampart Row, Bombay 400023. *Pres.:* Balkrishna Mahadoo Gogte ; *Vice-Press.:* A. S. Kasliwal, S. S. Kirloskar, R. D. Pusalkar; *Secy.:* R. G. Mohadikar.

Memon Chamber of Commerce, Patharia Palace, Mohamedali Rd., Bombay 400003.

Sindhi Chamber of Commerce & Industry, Garib CHS Ltd., 5th North South Rd., Bombay 400058.

Western India Chamber of Commerce Ltd., 232-234, Kalbadevi Rd., Bombay 400002.

Districts

Chamber of Commerce, Mkt. Yard, Sangli 416416.

Mahratta Chamber of Commerce & Industries, Tilak Rd., Pune 411002 ; *Pres.:* S. P. Khosla ; *Hon. Secs.:* V. M. Deval, M. G. Sathe.

Mahavidarbha Chamber of Commerce & Industry, Vohuman Lodge, Byramji Town, Nagpur 440013.

Nagpur Chamber of Commerce Ltd., Cotton Mkt., Nagpur 440002.

Nag-Vidharbha Chamber of Commerce, Temple Rd., Civil Lines, Nagpur 440001.

Nasik District Chamber of Commerce, 986, Raviwar Peth, Nasik 422001.

Pune Merchants' Chamber, 180, Bhavani Peth, Pune 411002.

Solapur Chamber of Commerce, Siddeshwar Mkt., W. Mangalwar Peth, Solapur 413002.

Steel & Hardware Chamber of Vidarbha, Bhogilal Doshi Bldg., Near Amardeep Talkies, Paithankar Rd., Nagpur 440002.

Vidarbha Chamber of Commerce & Industry, Mangaldas Mkt., Akola 444001.

ORISSA

Berhampur Chamber of Commerce, Berhampur 760001 (Ganjam Dist.).

Cuttack Chamber of Commerce, Malgodown, Cuttack 753003.

Ganjam Chamber of Commerce, Berhampur 760001.

Orissa Chamber of Commerce & Industry, Barbati Stadium, Cuttack 753001.

Puri Chamber of Commerce, Ground Rd., Puri 752001.

Rourkela Chamber of Commerce, Kacheri Rd., Rourkela 769001.

Utkal Chamber of Commerce & Industry, Cantonment Rd., Cuttack 753001.

PONDICHERRY

Chamber of Commerce, Post Box No. 26, Karikal 609602.

Chamber de Commerce, No. 1, Rue Suffren, P. Box No. 39, Pondicherry 605001.

PUNJAB

Northern India Chamber of Commerce & Industry, 1014, Sector 21B, Chandigarh 160017.

Punjab Federation of Industry & Commerce, Inside Hall Gate, Amritsar 143001.

RAJASTHAN

Bharatpur Chamber of Commerce & Industry, Nai Mandi, Bharatpur 321001.

Bikaner Divisional Chamber of Commerce, Woollen Press Bldg., Ind. Area, Bikaner 334001.

Chamber of Commerce, Sadar Bazar, Bundi 323001.

Chamber of Commerce, Bara Bazar, Udaipur 313001.

Chamber of Commerce & Industry, Bharatpur 321001.

Divisional Chamber of Commerce & Industry, Rampura Bazar, Kota 324006.

Jaipur Chamber of Commerce & Industry, Johari Bazar, Jaipur 302003.

Marwar Chamber of Commerce, 5, Haider Bldgs., Sojati Gate, Jodhpur 342001.

Mewar Chamber of Commerce & Industry, Mansingka House, Opp. Rly. Goods Shed, Bhilwara 311001.

Rajasthan Chamber of Commerce & Industry, Rajasthan Chamber Bhavan, M. I. Rd., Jaipur 302003.

Pres.: K. J. Bhargava ; *Sr. V. Pres. :* S. K. Mansinghka ; *V. Press. :* G. C. Kanuga, H. S. Ranka, Kirit H. Pareekh, Lalchand Kothari, Subhadra Kumar Patni ; *Hon. Sec. :* K. L. Jain.

TAMIL NADU

Andhra Chamber of Commerce, 272/73, Angappa Naick St., Madras 600001.

Chamber of Commerce, Madurai Rd., Theni 626531. (Madurai Dist.).

Chamber of Commerce & Industry, 13, Kadiresan Koil St., Kovilpatti 627701. (Tirunelveli Dist.).

Chamber of Commerce & Industries, 31, Maharnonbu Agraharam, Karaikudi 623001.

Coimbatore Chamber of Commerce, C/o T. Stanes & Co. Ltd., Race Course Rd., Coimbatore 641018.

Erode Chamber of Commerce, 189, Sathi Rd., Erode 638001.

Hindustan Chamber of Commerce, Hindustan Chamber Bldg., 8, Kondi Chetty St., Madras 600001.

Indian Chamber of Commerce, 6/83, Avanashi Rd., Coimbatore 641018. *Pres. :* K. Sundaram ; *Hon. Secs. :* C. R. Bhaskaran, S. Jagadesan.

Indian Chamber of Commerce, 84-B, South Raja St., Tuticorin 628001.

Indian Chamber of Commerce & Industry, 23, First Line Beach, Nagapattinam 611001.

Indo-American Chamber of Commerce, C/o Cheseborough-Pond's Inc., 19, Commander-in-Chief Rd., Madras 600008.

Indo-German Chamber of Commerce, 19, Cathedral Rd., Madras 600006.

Madras Chamber of Commerce & Industry, Dare House Annexe, 44, Moore St., Madras 600001. *Chmn. :* J. K. Clubwala ; *Vice-Chmn. :* C. Gopal Menon ; *Secy.:* C. S. Krishnaswami.

Madura Ramnad Chamber of Commerce, 90-92, East Avanimoola St., Madurai 625001. *Pres. :* M. Dhanasekhara Pandian ; *Hon. Secs. :* S. Sundaramurti, J. D. Solanki.

National Chamber of Commerce, 169, Broadway, Madras 600001.

Potato Chamber of Commerce, Cutchery St., Mettupalayam 641301. (Coimbatore Dist.).

Pudukottai Division Chamber of Commerce, Silver Hall, Old Palace Square, Pudukottai 622001.

Rajapalayam Chamber of Commerce, Hospital Rd., Rajapalayam 626117. (Ramnad Dist.).

Salem District Chamber of Commerce, Venkata Rao Rd., Salem 636001.

Sattur Chamber of Commerce, Railway Feeder Rd., Sattur 626203. (Ramnad Dist.).

Sivakasi Chamber of Commerce 5, South Car St., Sivakasi 626123.

South Travancore Chamber of Commerce, N. M. C. 10/377, Kumar Medical Centre Bldg., Tower Jn., Nagercoil 629001.

Southern India Chamber of Commerce & Industry, Indian Chamber Bldg., Esplanade, Madras 600001.

Tamil Chamber of Commerce, 310-311, Linghi Chetty St., Madras 600001.

Tiruchirapalli District Chamber of Commerce, 77, Madura Rd., Tiruchirapalli 620008.

Tuticorin Chamber of Commerce & Industry, 24-B, Beach Rd., Tuticorin 628001.

Tuticorin-Ceylon Current Exporters & Importers' Chamber, 24, South Raja St., Tuticorin 628001.

Usilampatti Chamber of Commerce, Usilampatti 626532. (Madurai Dist.)

Vellore Chamber of Commerce, 147/1, Chunnambukara St., Vellore 632001.

Vijaya Bharatha Chamber of Commerce Ltd., Virudhunagar 626004.

Virudhunagar Chamber of Commerce & Industry, P. Box 47, Virudhunagar 626001.

UTTAR PRADESH

Agra Merchants' Chamber Ltd., Bari Kothi, Belanganj, Agra 282004.

Banaras Chamber of Commerce Ltd., Biseshwarganj, Varanasi 221001.

Chamber of Commerce, Chandausi 202412.

Chamber of Commerce, Hapur 245101. (Meerut Dist.).

Doon Chamber of Commerce & Industry, 4, Nashvilla Rd., Dehra Dun 248001.

Eastern U. P. Chamber of Commerce & Industry, 5, Prayag St., Allahabad 211001.

Firozabad Chamber of Commerce & Industry, Kotta Rd., Firozabad 283203 (Agra Dist.).

Glass Bangles Merchants' Chamber, Firozabad 283203.

Merchants' Chamber of U. P., 14/38, Civil Lines, Kanpur 208001.

Muzaffarnagar Chamber of Commerce, Muzaffarnagar 251001.

National Chamber of Industries and Commerce, P. O. G. G. Industries, Agra 282004.

North India Chamber of Commerce & Industry, 9, Gandhi Rd., Dehra Dun 248001.

Shahjahanpur Merchants' Chamber, Carew Gunj, Shahjahanpur 242001.

Silk Merchants' Chamber of Commerce, Varanasi 221001.

Terai Merchants Chamber, Rudrapur 263153. (Nainital Dist.).

Traders Chamber of Uttar Pradesh, Meston Rd., Kanpur 208001.

U. P. Chamber of Commerce, 15-197, Civil Lines, Kanpur 208001.

U. P. Chamber of Commerce & Industry, 194, Delhi Rd., Meerut 250001.

Upper India Chamber of Commerce, 14/69, Civil Lines, Kanpur 208001. *Pres.:* B. K. Khanna : *Vice-Pres.:* H. K. Srivatsava ; *Secy.:* R. K. Mehra.

Vijai Beopar Chamber Ltd., New Mandi, Muzaffarnagar 251001.

Western U. P. Chamber of Commerce, Bombay Bazar, Meerut Cantt. 250001.

WEST BENGAL

Asansol Chamber of Commerce, 361, G.T. Rd. East, Asansol 713301.

Bengal Chamber of Commerce & Industry, Royal Exchange, Calcutta 700001. *Pres.:* P. Z. Baldik ; *Secy.:* M. Ghose.

Bengal National Chamber of Commerce & Industry, 23, R. N. Mookerjee Rd., Calcutta 700001. *Pres.* : Amitava Palchoudhuri ; *Vice-Press.* : Milan Kumar Mookerjee, S. C. Nandy ; *Secy.* : A. R. Dutta Gupta.

Bharat Chamber of Commerce, 8, Old Court House St., Calcutta 700001.

Burdwan Chamber of Commerce, Sir Rash Behary Ghosh Rd., Burdwan 713101.

Eastern Chamber of Commerce, 9/21, Bijoy Garh, Calcutta 700032.

Indian Chamber of Commerce, India Exchange, India Exchange Place, Calcutta 700001. *Pres.* : S. K. Birla ; *Sr. V. Pres.*: B. H. Singhania ; *Secy.-Genl.* : C. S. Pande.

Indo-American Chamber of Commerce, C/o Aeicorp (P) Ltd., 10, Lall Bazar St., Calcutta 700001.

Indo-German Chamber of Commerce, Ilaco House, 30 A/B, J. Nehru Rd., Calcutta 700016.

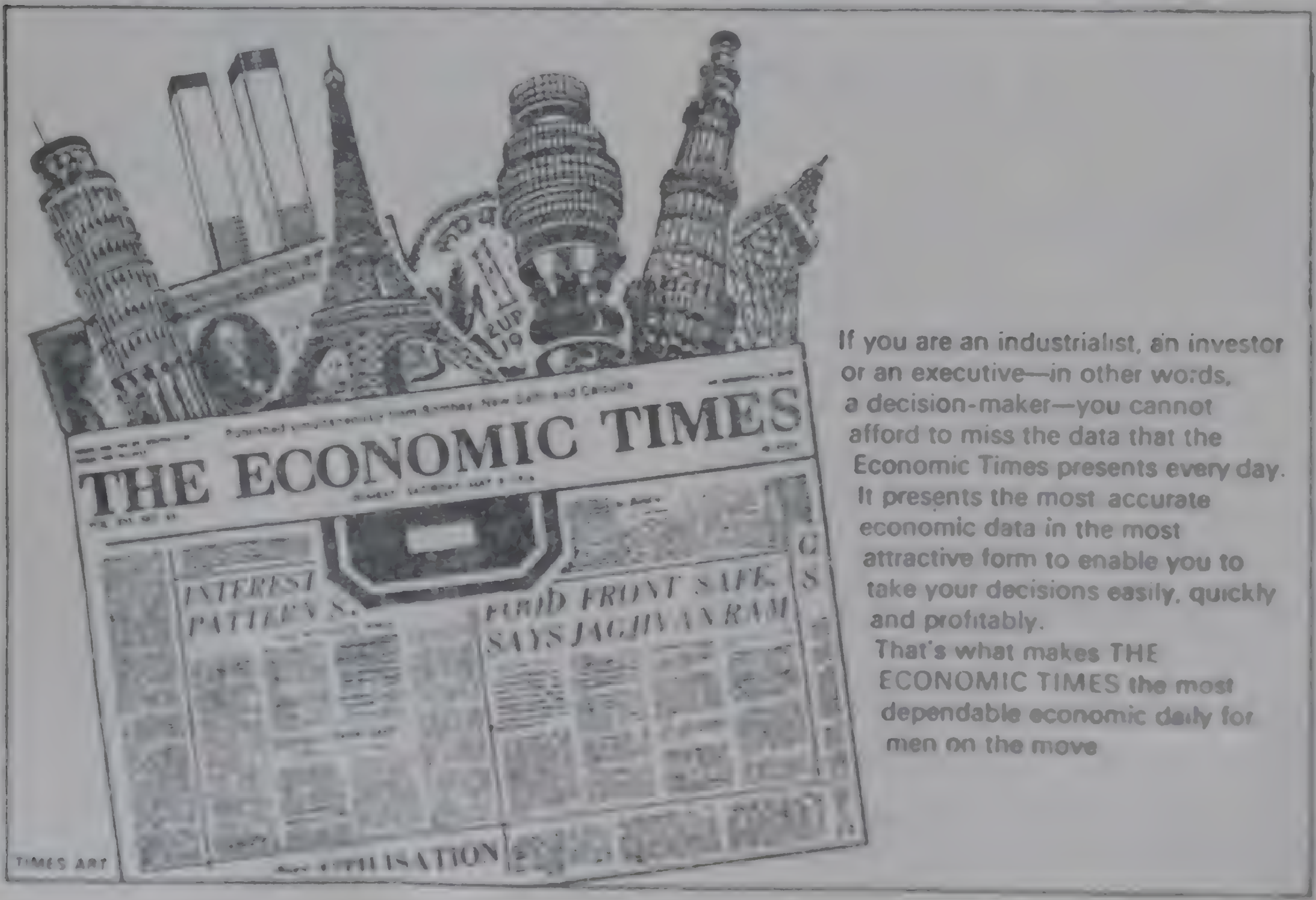
Kalimpong Chamber of Commerce, Kalimpong 734301. (Darjeeling Dist.).

Merchants' Chamber of Commerce, 3/1/2, Armenian St., Calcutta 700001. *Pres.* : D. M. Kothari ; *Vice-Pres.*: A. R. Sonthalia ; *Addl. Secy.* : H. R. Bose.

North Bengal Chamber of Commerce, Jalpaiguri 735101.

Oriental Chamber of Commerce, 6, Clive Row, Calcutta 700001.

Raniganj Chamber of Commerce, Raniganj 735101.



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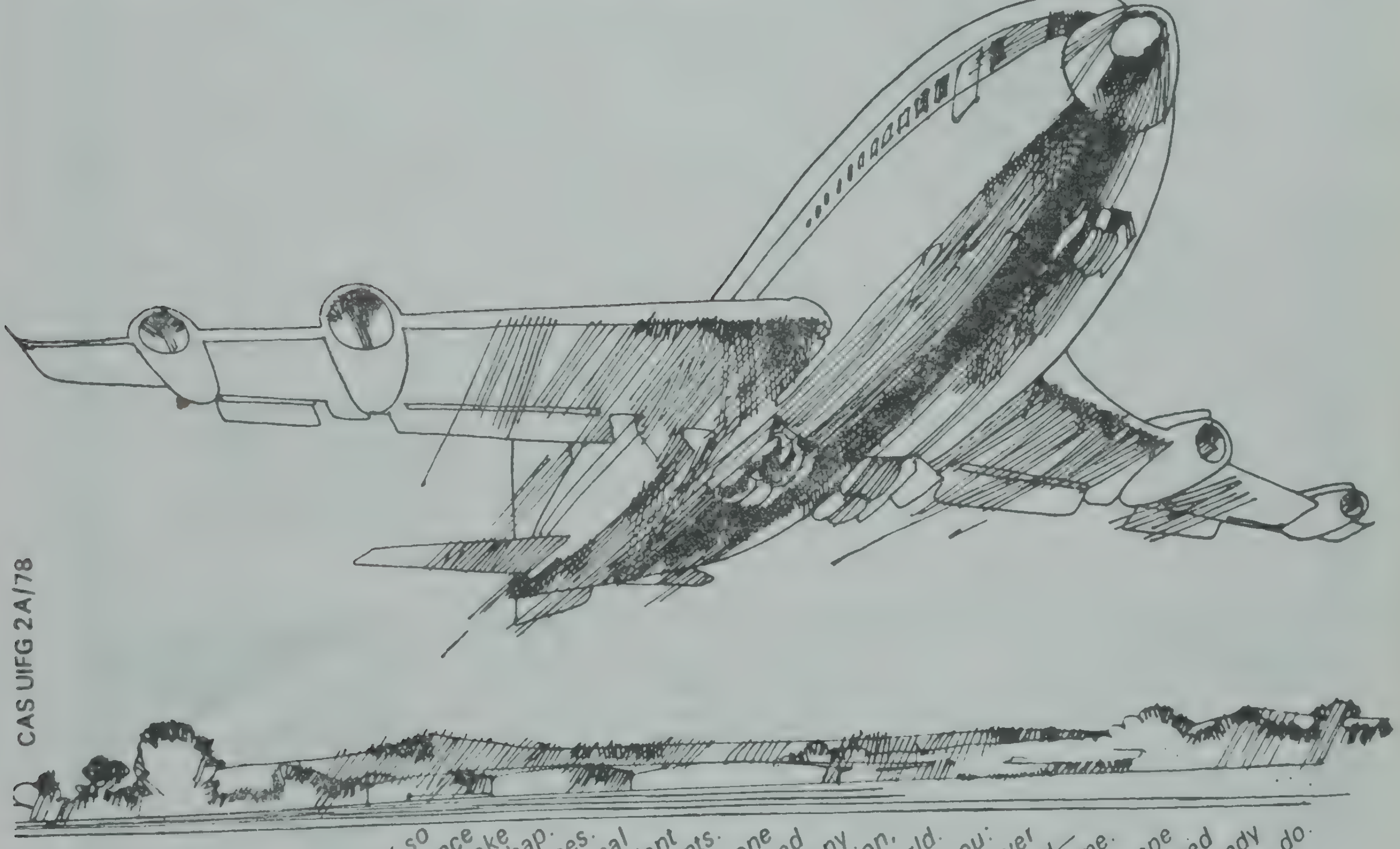

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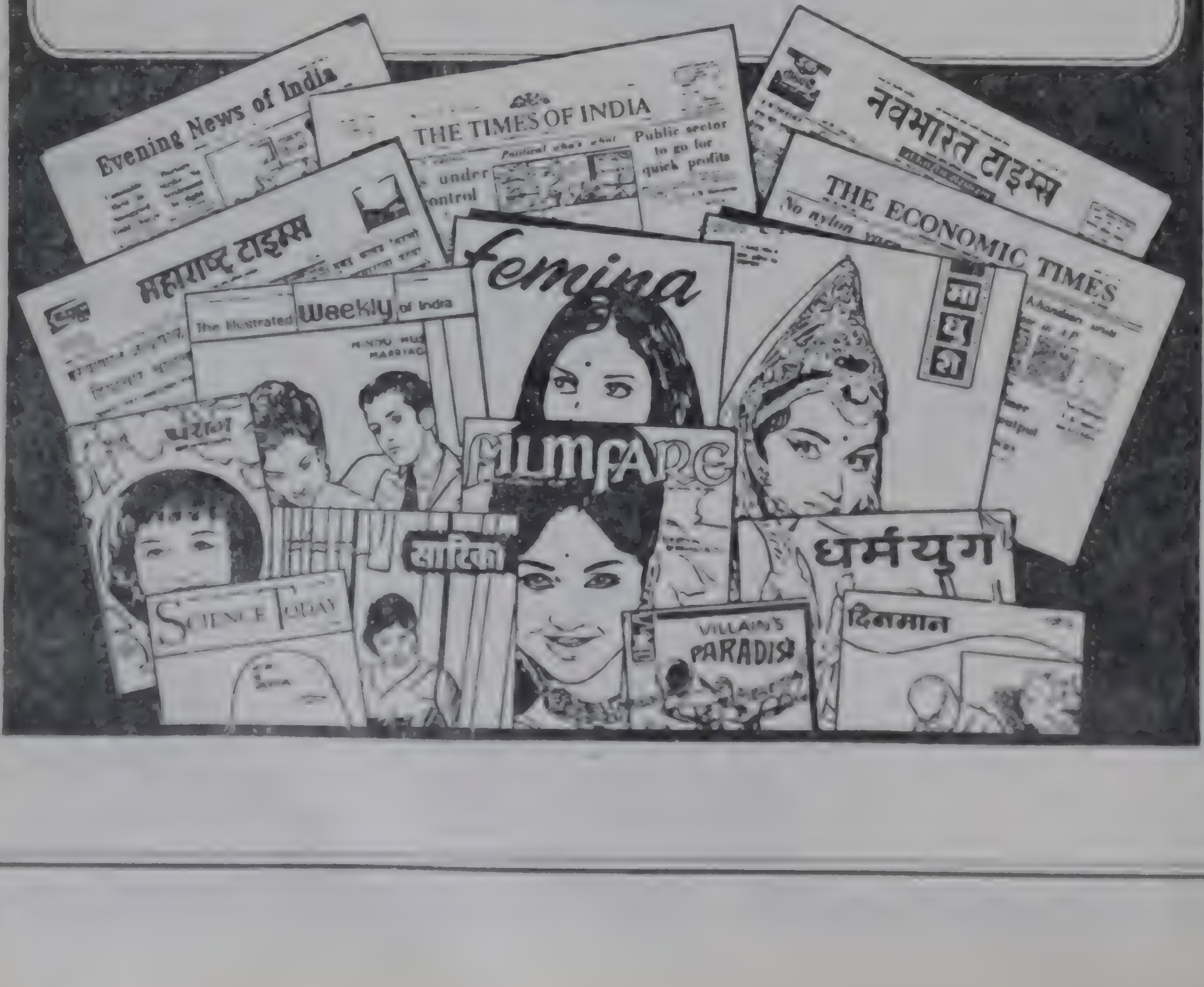
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COMMERCIAL FIRMS (MANUFACTURERS)

ABRASIVES & GRINDING WHEELS

Delhi

Micro Abrasives India Ltd., 65, Jor Bagh, New Delhi 110003.

Shevaraj Pvt. Ltd., C-204, Defence Colony, New Delhi 110003.

Gujarat

Emery India Pvt. Ltd., P.B. 135, Jamnagar 361001.

Orient Abrasives Ltd., GIDC Ind. Area, Porbandar 360575.

Western Abrasive Inds., B-1, Super Mkt., Jamnagar 361001.

Haryana

Indian Abrasives, 5, Ind. Area, Faridabad 121001.

Karnataka

Peenya Products Pvt. Ltd., A-189, Indl. Est., Peenya, Bangalore 560022.

Maharashtra

Abrasive Products of India, Ismail Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Abrawheel Pvt. Ltd., 107, Sarang St., Bombay 400003.

Associated Abrasives Pvt. Ltd., off Western Exp. Highway, Goregaon (E), Bombay 400063.

Bharat Engg. Stores, 113, Nagdevi St., Bombay 400003.

Bhogilal M. Pandit & Co., 28, Apollo St., Bombay 400023.

Carborundum Universal Ltd., United India Bldg., Sir P. Mehta Rd., Bombay 400001.

Chandrakant Shah & Co., 3, N. Dhuru Cross Lane, Bombay 400003.

Chetan Trdg. Co., 65 Sarang St., Bombay 400003.

Engg. Equipment Corpn., 40, Nagdevi Cross Lane, Bombay 400003.

General Abrasive Co. Pvt. Ltd., I. B. Patel Rd., Goregaon (E), Bombay 400063.

Grindwell Norton Ltd., Army Navy Bldg., 148, M. Gandhi Rd., Bombay 400023.

Ind. Abrasive Co-op. Society Ltd., 163, P. D'Mello Rd., Bombay 400001.

M. Desai & Co., 163, N. Dhuru St., Bombay 400003.

Modern Machine Tools Co., 88, Nagdevi Cross Lane, Bombay 400003.

Tamil Nadu

Carborundum Universal Ltd., 11, North Beach Rd., Madras 600001.

Cutfast Abrasive Tools Pvt. Ltd., Palli Karnai, Madras 600045.

Uttar Pradesh

John Oakey & Mohan Ltd., Mohan Nagar, Ghaziabad 201007.

West Bengal

East India Abrasives & Tools Co., 21, Kenderdine Lane, Calcutta 700012.

Krishnalal Thirani & Co. Ltd., 1, Brabourne Rd., Calcutta 700001.

ACCOUNTS & EXERCISE BOOKS

Crystal Stationery Mart, 146, A. Rehman St., Bombay 400003.

Fidvi Exports, 179, A. Rehman St., Bombay 400003.

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Manufacturers, Dealers & Exporters of Account & Exercise Books, Office Files, Diaries, Calendars, Desk Calendars, & Packaging Materials including Cartons.

General Printing Press, 185, Abdul Rehman St., Bombay 400003.

Karam Chand Thapar & Bros. (C.S.) Ltd., Thapar House, Temple Rd., Civil Lines, Nagpur 440001.

Paper & Wood Convertors, 24, Nari Shilp Mandir Rd., Dehra Dun 248001.

Rajasthan Printing Press Pvt. Ltd., Rajasthan Bhavan, Akola 444001.

Rotapress Pvt. Ltd., Rahimtoola House, Homji St., Bombay 400001.

Suresh Ruling & Binding Works, 319, Shanwar Peth, Pune.

Touti Exercise, 1088, Raviwar Peth, Pune 411002.

Uday Stationery Mart, 250, Raviwar Peth, Pune 411002.

ACIDS

Acid India, 30, Govindappa Naick St., Madras 600001.

Bengal Acid & Chemical Mfg. Co., 27-A, Acharya P. C. Rd., Calcutta 700009.

Bombay Acid & Chemical Co., Vadhani Indl. Est., Shastri Marg, Bombay 400086.

Bombay Oil Inds. Pvt. Ltd., Kanmoor House, 281/287, N. Natha St., Bombay 400009.

National Chemical Corpn., B. No. 9, Devkaran Mansion, Princess St., Bombay 400002.

Navsari Oil Products Pvt. Ltd., 4, Rajan House, Opp. Century Bazar, Bombay 400025.

Nukem Corpn., Sagar Mandir, Shivaji Park, 5th Rd., Bombay 400016.

Polypharm Pvt. Ltd., Calcot House, 8. Tamarind St., Bombay 400023.

Star Chemicals (Bombay) Pvt. Ltd., 21-A, Noble Chambers, P. Bazar St., Bombay 400001.

Thana Acid & Chemical Co., 409, Sharda Chambers, Keshavji Naik Rd., Bombay 400009.

Union Acid & Chemical Co., 88, Bapu Khote St., Bombay 400003.

ADDING & CALCULATING MACHINES

(See under Office Equipment).

ADDRESSING MACHINES

(See under Office Equipment).

ADHESIVE TAPES

Amartara Pvt. Ltd., Saki Vihar Rd., Bombay 400072.

BDM Industries, Gama House, Gandhi Rd., Bhandup, Bombay 400078.

Bhavnani & Sons Pvt. Ltd., Waco House, Masrani Lane, Kurla, Bombay 400070.

Million Tape Mfg. Co. India (Regd.), 2640, Hamilton Rd., K. Gate, Delhi 110006.

Natraj Paper Industries, 38–44, Nagdevi St., Bombay 400003

P. Kesavan & Co., T. D. Rd., Cochin 682011.

Picon Pvt. Ltd., 50, Nesbit Rd., Mazgaon, Bombay 400010.

Pidilite Ind. Pvt. Ltd., Mafatlal House, Backbay Reclamation, Bombay 400020.

Sahyadri Sales & Service, 36, Poona Bombay Rd., Preet Chambers, Pune 411003.

Tapex Corpn., Belgaum 590001.

Vidyut Udyog, 5, Fancy Lane, Calcutta 700001.

ADHESIVES

Delhi

Bharat Glue Manufg. Co., 6469, Katra Baryan, Fatehpuri, Delhi 110006.

Delhi Glue & Paint Ind., Katra Baryan, Fatehpuri, Delhi 110006.

Jain & Jayna Sales Corpn., 14-B/7007, Dev Nagar, Karol Bagh, New Delhi 110005.

Gujarat

Neo Enterprise, 533, Padshaha's Pole, Relief Rd., Ahmedabad 380001.

Raymon Glues & Chemicals, "Kaustubh", 46-B, Gautam Nagar, Race Course Circle, Vadodara 390007.

Karnataka

Sahyadri Starch & Chemicals Pvt. Ltd., 60–61, III Phase, Peenya Ind. Estate, Bangalore 560022.

Maharashtra

Artec Products, 55, Sidhpura Indl. Est., Bombay 400062.

Calico Chemicals, Plastics & Fibres Divn., Anik-Chembur, Bombay 400074.

Chemisol Ind., Devkaran Mansion, 41, Princess St., Bombay 400002.

Corn Products (I) Ltd., Shrinivas House, Waudby Rd., Bombay 400001.

Diamond Enterprises, 443, Dr. Bhadkamkar Mrg., Bombay 400004.

Hazarat & Co., Warden House, Sir P. Mehta Rd., Bombay 400001.

Hardcastle Waud Manufg. Co. Pvt. Ltd., 87, V. Nariman Rd., Bombay 400020.

Industrial Chemicals & Adhesives, Saki-Vihar Rd., Powai, Bombay 400072.

Mahindra Electro-Chemical Products Ltd., Bombay-Pune Rd., Pimpri, Pune 411018.

Nataraj Paper Industries, 38-34, Nagdevi St., Bombay 400003.

Nevichem Synthetic Inds., 2-B, Parekh Nagar Ind. Estate, S. V. Rd., Kandivli West, Bombay 400087.

Pidilite Ind. Pvt. Ltd., Mafatlal House, Backbay Reclm., Bombay 400020.

Rainbow Ink & Varnish Mfg. Co. Pvt. Ltd., 133-C, Vakola Pipe Lane, Bombay 400055.

Rajni Chemical Inds. Pvt. Ltd., Borivli, Bombay 400092.

Themis Agencies, 43, M. Karve Rd., Bombay 400002.

West Bengal

Adhesives & Allied Products, 12, N. Subhas Rd., Calcutta 700001.

Adhesives & Chemical Inds., 590, N. Alipore, Calcutta 700053.

Bells Plastics & Chemicals, P-36, India Exchange Place, Calcutta 700001.

Chandra's Chemical Enterprises Pvt. Ltd., P-35, C.I.T. Rd., Scheme 52, Calcutta 700014.

Dinils Adhesives Pvt. Ltd., 8/1B, J. Mohan Ave., Calcutta 700006.

Gripex (I) Ltd., C-6, 8, N. Subhas Rd., Calcutta 700001

Indian Eyelets Ind., 33, N. Subhas Rd., Calcutta 700001.

Metroark Pvt. Ltd., 12, Lenin Sarani, Calcutta 700013.

Peoples Enterprise Pvt. Ltd., 16/1, G. C. Avenue, Calcutta 700013.

Sulekha Works Ltd., Sulekha Park, Calcutta 700032.

ADVERTISING NOVELTIES

Adgifts India, 3/23, Kamal Mansion, Arthur Bunder Rd., Bombay 400005.

Apex Traders, 2/315, Sunder Market, Subzi Mandi, Delhi 110007.

Asian Pen & Plastic Inds., 424-A, Raut Ind. Estate, S. B. Mrg., Mahim, Bombay 400016.

Bajaj Leathers Pvt. Ltd., 63, Jolly Maker Chamber 1, Nariman Point, Bombay 400021.

Bhambri Plastics, D-1, R. Pratap Bagh, Delhi 110007.

Bombay Burma Plastics, Green House, Green St., Bombay 400001.

Bright Bros. Pvt. Ltd., 156-A, J. Dadajee Rd., Bombay 400034.

Fidvi Printing Press, 179, A. Rehman St., Bombay 400003.

Jai Hind Leather Products, 60, Broadway, Madras 600001.

Janata Book Manufg. Co., 219, A. Rehman St., Bombay 400003.

Jhaveri Bros. & Co. Pvt. Ltd., 348, A. Rehman St., Bombay 400003.

Metal Box Co. of India Ltd., Barlow House, 59, Chowringhee, Calcutta 700020.

Pahlaj Bajaj & Co. (Novelties) Pvt. Ltd., 63, Jolly Maker Chambers No. 1, Nariman Point, Bombay 400021.

Promotional Aids & Presentation Articles, Causeway House, Colaba Causeway, Bombay 400039.

Shanti Plastic Works, Prasad Chambers, Bombay 400004.

Sharat Inds., Swastik Ind. Estate, C.S.T. Rd., Kalina, Bombay 400029.

Skil Products, 84/94, Central Studio House, Near Air-conditioned Mkt., Tardeo, Bombay 400034.

Speed-O-Speak (India), 7, New Queen's Rd., Bombay 400004.

T. Alimahomed & Co., 144-46, Sarang St., Bombay 400003.

Tasco Inds., Saiman House, 1st Khed Lane, Behind Crown Mills, Prabhadevi, Bombay 400025.

Vinyl Processors, Ratnavali, 1st Gouthan Lane, Bombay 400054.

AERATED WATER

Duke & Sons, Sunderbaug Est., Wadala Borla Rd., Bombay 400071.

Parle Exports Pvt. Ltd., Western Express Highway, Chakala, Andheri East, Bombay 400093.

Pure Drinks Pvt. Ltd., Worli Naka, Bombay 400018.

Southern Bottlers Pvt. Ltd., Guindy, Madras 600032.

AERATING MACHINES

Esoofaly Mohamedaly & Co., 102/4, Sarang St., Bombay 400003.

Rajaram Bhiku & Sons, New Prabhadevi Rd., Bombay 400025.

T. Alimahomed & Co., 144-46, Sarang St., Bombay 400003.

AERIAL ROPEWAY

Dass Hitachi Pvt. Ltd., 21-A, Janpath, New Delhi 110002.

Jessop & Co. Ltd., 63, N. Subhas Rd., Calcutta 700001.

AGARBATTIS

(See under Perfumes and Agarbattis.)

AGRICULTURAL IMPLEMENTS, ETC.

Andhra Pradesh

Balaji Ind. & Agricultural Castings, 4-3-74, Hill St., Ghasmandi, Secunderabad 500003.

Hyderabad Iron & Steel Works, Ind. Area, Hyderabad 500018.

Jyothi Ind., C-31, Ind. Estate, Sanatnagar, Hyderabad 500018.

Krishi Engines Ltd., A-7 Unit, Sanatnagar, Hyderabad 500018.

South India Motor Manufg. Co. Pvt. Ltd., Nacharam Ind. Estate, Hyderabad 500039.

Swastik Manufrs. Ltd., 128, M. Gandhi Rd., Secunderabad 500003.

Bihar

Arthur Butler & Co. Ltd., Muzaffarpur 842001.

K. N. Roy & Sons (Pvt.) Ltd., Main Rd., Ranchi 834001.

Saran Engg. Co. Ltd., Marhowrah, 841418, Saran Dist.

Tata Iron & Steel Co. Ltd., Jamshedpur 831001.

Delhi

Bali & Co. Pvt. Ltd., Najafgarh Rd., New Delhi 110015.

Central Tractor Org., Pusa Rd., New Delhi 110012.

Escorts Ltd., 11, Scindia House, Connaught Circus, New Delhi 110001.

Espi (New Delhi) Trdg. Co., Vandhana, 11, Tolstoy Mrg., New Delhi 110001.

Ghaziabad Engg. Co. Pvt. Ltd., 42, Janpath, New Delhi 110001.

Gupta Iron and Brass Works Pvt. Ltd., 29, Najafgarh Rd., New Delhi 110015.

Janata Steel & Metal Co-op. Ind. Soc. Ltd., 5948, Ballimaran, Delhi 110006.

Kapoor Engg. Works, B-41 & B-56, Rewari Line Ind. Area, New Delhi 110027.

Laldee Pvt. Ltd., Vijay Press Bldg., Naya Bazar, Delhi 110006.

Modern Farm Aids, 4-E/8, Jhandewalan Extn., New Delhi 110055.

Raj Engg. Works Pvt. Ltd., Ajmeri Gate, Delhi 110006.

Shree Bharat Ind., B-70, Rewari Lines, Phase I, New Delhi 110027.

Gujarat

Abdul Samad Abdul Kadar & Sons, 1839, Panchpatti, Kalupur, Ahmedabad 380001.

Agro Precision Imp. Ltd., Near I.T.I., Naroda, Ahmedabad 380002.

Bharat Techno Mechanical Ind. Ltd., Maneklal Rd., Navsari 396445.

Charotar Gramodhar Sahakar Mandali Ltd., Vallabh Vidyanagar 388120.

Indequip Engg. Ltd., Near Indl. Trg. Instt., Naroda, Ahmedabad 382325.

Jyoti Ltd., Ind. Area, P.O. Chemical Ind., Vadodara 390003.

Sayaji Iron & Engg. Co. Ltd., Chhani Rd., Vadodara 390001.

Haryana

Eicher Tractors (I) Ltd., New Indl. Town, Faridabad 121001.

Laldee Pvt. Ltd., 11, Ind. Area, Faridabad 121001.

Oriental Engg. Works Pvt. Ltd., 1, Yamuna Nagar 135001.

Karnataka

Indo-German Plantation Machinery Co., Ltd., 27, Indl. Suburb North, Bangalore 560022.

Mysore Imp. Factory, Hassan 573201.

St. Joseph's Asylum Ind. Workshop, Jeppoo, Mangalore 575001.

Vijaykumar Ind. Works, 39, Kemmungundi Rd., Bangalore 560002.

Kerala

Brunton & Co., Engineers Ltd., Ballard Rd., Cochin 682001.

Calicut Metal Craft Pvt. Ltd., 5, Ind. Estate, Calicut 673001.

Metal Ind. Ltd., Metindnagar, Shoranur 679121.

South India Corpn. P. Ltd., Cochin 682002.

Madhya Pradesh

Bhandari Iron & Steel Co., Silnath Camp, Indore 452001.

Central India Iron & Steel Co., 5117, Shilnath Camp, Indore 452001.

Electro Agro Ind., Arora Colony, Bhopal 462001.

Simplex Engg. & Foundry Works, Nagpur Rd., Jabalpur 482001.

Maharashtra

Agricultural Discs (India) Ltd., United Bank of India Bldg., Sir P. Mehta Rd., Bombay 400001.

Agro Machinex Engg. Pvt. Ltd., 3-G/2, Court Chambers, New Marine Lines, Bombay 400020.

Ajanta Farm Mach. Co., Plot A-49, 'H' Block, M.I.D.C., Pimpri, Pune 411018.

Apeejay Pvt. Ltd., 24, Baroda St., Bombay 400009.

Aries Agro-Vet Inds. Pvt. Ltd., Post Box 9417, Bombay 400093.

Automobile & Agricultural Inds. Corpn., Roop Raj, Sardar V. P. Rd., Bombay 400004.

Bajaj Steel Ind. Pvt. Ltd., 20, Sir P. Mehta Rd., Bombay 400001.

Cooper Engg. Ltd., Chinchwad 411033, Pune Dist.

Dattatray Ind. Pvt. Ltd., 691/A, Poona-Satara Rd., Pune 411009.

K.T. Steel Ind. Pvt. Ltd., Broach St., Bombay 400009.

Kirloskar Bros. Ltd.. Kirloskarwadi 416308.

Larsen & Toubro Ltd., L. & T. House, N. Morarjee Mrg., Bombay 400038.

Maharashtra Iron Works, 4412, Panchavati Karanja, Nasik 422003.

Marshall Sons & Co. (India) Ltd., Marshall Bldg., S. Vallabhdas Marg, Bombay 400038.

Martin Burn Ltd., Esplanade House, Waudby Rd., Bombay 400001.

Palekar & Co., Sitaram Building, Near Crawford Market, Bombay 400001.

Prefit Ind., 198, Carnac Rd., Bombay 400002.

Saurashtra Engg. Corpn. Pvt. Ltd., 106, Bazarwad, Kurla, Bombay 400070.

Shivaji Works Ltd., Tikekarwadi 413225.

Voltas Ltd., 19, Graham Rd., Ballard Estate, Bombay 400038.

Orissa

Orissa Agricultural Co. Ltd., Indl. Estate, Cuttack 753001.

Punjab

Batala Iron & Steel Works, Batala 143505.

Central Foundry and Workshop, Grand Trunk Rd., Batala 143505.

Dharma Engg. Co., Grand Trunk Rd., Batala 143505.

Hero Engg. Works, Grand Trunk Rd., Batala 143505.

Swastika Iron & Steel Works, G. T. Rd., Kartarpur 144801, Jullundur Dist.

Watkins Mayer Co., Kadowali Rd., Jullundur 144001.

Rajasthan

Rajasthan Implements, 1788, Ajmer Rd., Jaipur 302001.

Vishwakarma Engg., Opp. Sindhi Camp, Jaipur 302006.

Tamil Nadu

Addison & Co. Ltd., 158, Mount Rd., Madras 600002.

Aditya Agro Ind. Pvt. Ltd., 11-A/3, Mount Rd., Madras 600002.

Anamallais Agencies, 4/1, Mettupalayam Rd., Coimbatore 641011.

Elpem Industrials, Mettupalayam Rd., Coimbatore 641002.

Engg. Accessories Pvt. Ltd., F/14, Ind. Estate, Madras 600058.

Ind. and Agri. Engg. Co. (Madras) Pvt. Ltd., 2-17, Mount Rd., Madras 600002.

Larsen & Toubro Ltd., 4-5, Club House Rd., Madras 600002.

Masseys, Nr. Rly. Terminus Rd., Madras 600013.

Marshall Sons & Co. Manufg. Pvt. Ltd., A/4, Ind. Est., Madras 600058.

Ramsar Farm Mach. Pvt. Ltd., 209, Mettupalayam Rd., Coimbatore 641002.

SHI Engrs., 46, Sidco Indl. Estate, Coimbatore 641021.

Simpson & Co. Ltd., 202, Mount Rd., Madras 600002.

St. Joseph's Ind. School & Press, Coimbatore 641001.

Uttar Pradesh

Cossul & Co. Pvt. Ltd., 123/367, Fazalganj, Kanpur 208001.

Delhi Iron & Steel Co. Ltd., Grand Trunk Rd., Ghaziabad 201001.

Ghaziabad Engg. Co. Pvt. Ltd., G. T. Rd., Ghaziabad 201001.

Hind Trading Manufg. Pvt. Ltd., Sharma Sadan, P. Rd., Kanpur 208001.

Hindustan Foundry & Engg. Corpn., 81, Indl. Est., Nunhai, Agra 282001.

J. K. Satoh Agri. Mach. Ltd., Kamla Tower, Kanpur 208001.

Kajeco Inds., 26/250, Sultanganj, Agra 282001.

Rohilkhand Ind. Ltd., Bareilly 243001.

West Bengal

A. T. Mohsin & Co., 71-A, N. Subhas Rd., Calcutta 700001.

Agri. Mach. Manufg. Corpn. Ltd., 38/1, Bosepara Lane, Calcutta 700001.

Anand Metal & Steel Works, 23, Brabourne Rd., Calcutta 700001.

Bharat Shovel Works Pvt. Ltd., 169, S. P. Banerji Rd., Calcutta 700035.

C. Comens & Sons Pvt. Ltd., 103/3, Diamond Harbour Rd., Calcutta 700001.

Dabros Indl. Co. Pvt. Ltd., 108, Biren Roy Rd. X, Calcutta 700061.

East Zone Supply Corpn., 1, Acharya J. Bose Rd., Calcutta 700020.

Marshall Sons & Co. (India) Ltd., 33/1, N. Subhas Rd., Calcutta 700001.

Marcandy Prasad Radha Krishna Prasad (Pvt.) Ltd., 65, G. T. Rd., Salkia 711106.

Mungpa Tractor Engg. Co. Pvt. Ltd., 61, Grand Trunk Rd., Liluah, Howrah 711204.

Shaw Wallace & Co. Ltd., 4, Bankshall St., Calcutta 700001.

Tractors & Mach. Pvt. Ltd., 25 G. Chandra Ave., Calcutta 700013.

AIR CIRCULATOR & AIR CONTROL EQUIPMENT

Gujarat

Alchemie Pvt. Ltd., Opp. Potalia Talao, Saraspur, Ahmedabad 380018.

Industrial Machinery Manufrs. Pvt. Ltd., Near New Cotton Mills, Off. Amraiwadi Rd., Ahmedabad 380008.

Haryana

Snowtemp Eng. Co. Ltd., 14th Mile Stone, Mathura Rd., Faridabad 121001.

Karnataka

Dust Control & Ventilation Ltd., A-175-176, Peenya Indl. Suburb., Bangalore 560022.

Maharashtra

Bharat Electric & Engg. Corpn., 21, Dalal St., Bombay 400023.

Indabrator Ltd., N. S. E. Estate, Goregaon East, Bombay 400063.

AIR PILLOWS & AIR MATTRESSES

Bengal Waterproof Co., 32, Theatre Rd., Calcutta 700010.

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A.P.V. Engg. Co. Pvt. Ltd., 2 Jessore Rd., Calcutta 700028.

Air Control & Chemical Engg. Co. Ltd., Patel Society, Panchvati, Ahmedabad 380006.

American Refrigerator Co. Ltd., 20A, Shivaji Marg, Calcutta 700015.

Automotive Refrigeration Co., 100, Nagindas Master Rd., Bombay 400023.

Indian Refrigeration Ind., 51 Najafgarh Rd., New Delhi 110015.

Ion Exchange (India) Ltd., Tiecicon House, Haines Rd., Bombay 400011.

AIRCONDITIONERS, REFRIGERATORS & RECTIFIERS

Andhra Pradesh

Frizair Corpn., Sanatnagar, Hyderabad 500018.

Hyderabad Allwyn Metal Works Ltd., Sanatnagar, Hyderabad 500018.

Shriram Refrigeration Ind. Ltd., P.O. Balanagar Township, Hyderabad 500037.

Delhi

Air Frige Ind., 10/65, Kirti Nagar Ind. Area, New Delhi 110015.

Bombay Ammonia Pvt. Ltd., 1/24, Asaf Ali Rd., New Delhi 110002.

Delhi Refrigeration Corpn., 'Sahdeva House', 3819/20, David St., Darya Ganj, New Delhi 110002.

Electronics Ltd., 12-A, Connaught Place, New Delhi 110001.

Fedders-Lloyd Corpn. Pvt. Ltd., 10-1, Kalkaji Extn., New Delhi 110019.

Freeze King Ind. Pvt. Ltd., 7/17, Kirti Nagar, New Delhi 110015.

Frick (India) Ltd., Jeevan Vihar Bldg., Parliament St., New Delhi 110001.

General Equipment Merchants Ltd., 2/90, Connaught Place, New Delhi 110001.

Himalaya Manufg. & Sales Co., Park Mansion, N. Subhas Marg, Delhi 110006.

Indian Refrigeration Ind., 7/15, Kirti Nagar, New Delhi 110015.

Industrial Refrigeration Corpn., B-35, South Ext., Part I, New Delhi 110049.

Industrial Refrigeration Ind. Pvt. Ltd., 10/65, Kirti Nagar Indl. Area, New Delhi 110015.

Kelvinator of India Ltd., Atma Ram House, Tolstoy Marg, New Delhi 110001.

Koolaire Pvt. Ltd., 44, Janpath, New Delhi 110001.

Lloyd Electric & Engg. Co., Punj House, M-13, Connaught Circus, New Delhi 110001.

Nath Traders (India), HS/14, Kailash Colony, New Delhi 110048.

National Refrigeration Works, 3, Subash Marg, Darya Ganj, New Delhi 110002.

Virmani Refrigeration & Cold Storage Pvt. Ltd., E/2, Jhandewalan Ext., New Delhi 110055.

Gujarat

American Refrigerator Co. Ltd., Jan Saheb St., Lal Darwaja, Ahmedabad 380001.

Haryana

Kelvinator of India Ltd., 28, New Ind. Town, Faridabad 121001.

Snowtemp Engg. Corpn., Delhi Mathura Rd., Faridabad 121003.

Usha Rectifier Corpn. (I) Ltd., 12/1, Mathura Rd., Faridabad 121001.

York India Ltd., 14th Milestone, Mathura Rd., Faridabad 121001.

Karnataka

Olympus Refrigeration & Engg. Corpn., Ind. Estate, Yeyyadi, Mangalore 575001.

Steel India Pvt. Ltd., C-12, Ind. Estate, Bangalore 560044.

Maharashtra

Advanson Engg. Co., A 78, Wagle Ind. Estate, Plot A. 78, Thane 400604.

Arvind Mechanical & Electrical Engrs. Pvt. Ltd., New Sun Mill Comp., Lower Parel, Bombay 400013.

Batliboi & Co. Pvt. Ltd., Bharat House, Apollo St., Bombay 400023.

Blue Star Ltd., Kasturi Bldg., J. Tata Rd., Bombay 400020.

Bombay Refrigerator Ind. Pvt. Ltd., 119, Bhavani Shankar Rd., Bombay 400028.

Dadajee Dhackji & Co. Pvt. Ltd., Sandhurst Bridge, Bombay 400007.

Danfoss India Ltd., Mani Mahal, Mathew Rd., Bombay 400004.

General Equipment Merchants Ltd., Khorshed Bldg., Sir P. M. Rd., Bombay 400001.

Godrej & Boyce Manufg. Co. Pvt. Ltd., Lalbaug, Bombay 400012.

Hind Rectifiers Ltd., Lake Rd., Bhandup, Bombay 400078.

I. B. Engg. Co., Shree Vijay Bhavan, S. K. Barodawala Mrg., Bombay 400026.

Jafkay Engg. Corpn., A 12, Marol MIDC Ind. Estate, Bombay 400059.

Khandelwal Herrmann Electronics Pvt. Ltd., Khandelwal Estate, Bhandup Village Rd., Bombay 400078.

Kirloskar Pneumatic Co. Ltd., Hadapsar Ind. Estate, Pune 411013.

Larsen & Toubro Ltd., L. T. House, N. Morarji Marg, Ballard Estate, Bombay 400038.

Marshal Airconditioning & Refrigeration Engrs., 206, Auto Commerce House, Kennedy Bridge, Bombay 400007.

National India Development Co. Ltd., A. Kranti Maidan, Forjett St., Bombay 400026.

Premier Automobiles Ltd., Agra Rd., Kurla, Bombay 400070.

Sahyadari Enterprises, Haji Moosa Ind. Estate, 20, Dr. E. Moses Rd., Bombay 400011.

Spencer & Co. Ltd., Spencer House, Forjett Rd., Bombay 400026.

Steam Radiators Corpn., Amin Ind. Estate, Sonawala Cross Rd., Bombay 400063.

Tropical Refrigeration Industries, Kangra Bhavan No. 2, Dr. A. Besant Rd., Bombay 400025.

V. Krishna & Co., Moti Baug, Opp. R. K. Studio, Chembur, Bombay 400071.

Voltas Ltd., 19, Graham Rd., Ballard Estate, Bombay 400038.

Orissa

Kalinga Svenska Ltd., P. O. Chowdwar 754025, Cuttack Dist.

Punjab

Beegee Corpn. Pvt. Ltd., 25, Factory Area, Patiala 147002.

Tamil Nadu

Air Conditioning Corpn. Ltd., 8, Greames Rd., Madras 600006.

Hydrogen Pvt. Ltd., 1/155, Mount Rd., Madras 600002.

Uttar Pradesh

Koolaire Pvt. Ltd., Pasonda, Ghaziabad 201001.

West Bengal

A. P. V. Engg. Co. Ltd., 2, Jessore Rd., Calcutta 700028.

Air Conditioning Corpn. Ltd., 17, Taratolla Rd., Calcutta 700053.

American Refrigerator Co. Ltd., 13/C, Russel St., Calcutta 700016.

Dua Refrigeration Co., 1, L. Cross Rd., Calcutta 700020.

Electric Construction & Equipment Co. Ltd., 9, K. Singh Rd., Calcutta 700002.

General Electric Co. of India Pvt. Ltd., Magnet House, Ganesh Chandra Ave., Calcutta 700013.

Guest Keen Williams Ltd., Jeevan Deep, 3A, Shakespeare Sarani, Calcutta 700071.

J. Stone & Co. (India) Pvt. Ltd., 16, New Taratola Rd., Calcutta 700027.

Jay Engg. Works Ltd., 183 A, P. Anwarsha Rd., Calcutta 700031.

National Refrigerators Pvt. Ltd., 87, Lower Circular Rd., Calcutta 700014.

Paharpur Cooling Towers Pvt. Ltd., 1-B, Judges Court Rd., Calcutta 700027.

Refrigeration Accessories Ltd., 13/1/B, Russel St., Calcutta 700016.

Refrigerators (India) Pvt. Ltd., 4-1, Debendra Lal Rd., Calcutta 700025.

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Batliboi & Co. Pvt. Ltd., Bharat House, Apollo St., Bombay 400023.

Blue Star Ltd., Kasturi Bldg., J. Tata Rd., Bombay 400020.

Bombay Ammonia Pvt. Ltd., 1/24, Asaf Ali Rd., New Delhi 110002.

Danfoss India Ltd., Mani Mahal, Mathew Rd., Bombay 400004.

Freeze King Ind. Pvt. Ltd., 7/17, Kirtinagar, New Delhi 110015.

Frick (India) Ltd., Jeevan Vihar Bldg., Parliament St., New Delhi 110001.

Frigsales (India) Pvt. Ltd., 204, Commerce House, Medows St., Bombay 400023.

Industrial Refrigeration Ind. Pvt. Ltd., 10/65, Kirti Nagar Indl. Area, New Delhi 110015.

J. Stone & Co. (India) Pvt. Ltd., 16, New Taratola Rd., Calcutta 700027.

Jafkay Engg. Corpn., A-12, Marol MIDC Ind. Estate, Bombay 400059.

Lloyd Sales Corpn., 386, Cadell Rd., Bombay 400028.

National Refrigerators Pvt. Ltd., 87, Lower Circular Rd., Calcutta 700014.

Pandya & Co., Nanabhoy Mansion, Sir P. Mehta Rd., Bombay 400001.

Refrige Pvt. Ltd., 16, Shakespeare Sarani, Calcutta 700016.

Refrigeration Inds., Plot No. 76, Rd. No. 14, M.I.D.C., Andheri East, Bombay 400093.

Refrigerators (India) Pvt. Ltd., P-12 CIT Rd., Calcutta 700014.

Tropical Refrigeration Ind., Kangra Bhavan No. 2, Dr. A. B. Rd., Bombay 400025.

Voltas Ltd., 19, Graham Rd., Ballard Estate, Bombay 400038.

ALKALI

Andhra Pradesh

Andhra Sugars Ltd., Venkatarayapuram, P.O. No. 2, Tanuku 534211.

Delhi

Shriram Chemical Ind., 1, Jhandewalan Estate, Naaz Bldg., New Delhi 110055.

Gujarat

Atul Products Ltd., P.O. Atul 396020. Valsad Dist.

Kerala

Travancore Cochin Chemicals Ltd., Udyogmandal 683501.

Maharashtra

Calico Chemicals & Plastics Division, Anik Chembur, Bombay 400074.

Century Chemicals, Industry House, Churchgate Recl., Bombay 400020.

Dhrangadhra Chemical Works Ltd., Nirmal, Nariman Point, Bombay 400021.

Saurashtra Chemicals, Industry House, Churchgate Recl., Bombay 400020.

Standard Mills Co. Ltd., Chemical Division, Mafatlal House, Backbay Recl., Bombay 400020.

Tata Chemicals Ltd., Bombay House, Homi Mody St., Bombay 400023.

Tamil Nadu

Mettur Chemical & Ind. Corpn. Ltd., Mettur Dam R.S. 636402, Salem Dist.

West Bengal

Alkali & Chemical Corpn. of India Ltd., 18, Strand Rd., Calcutta 700001.

Jayshree Chemicals Ltd., 14, N. Subhas Rd., Calcutta 700001.

Kanoria Chemicals & Ind. Ltd., 16A, Brabourne Rd., Calcutta 700001.

Alloy Steel

(See 'Steel Alloy' in this list.)

ALUMINIUM DOORS, WINDOWS & FURNITURE

Ajax Inds., 116, Mittal Estate, Sir M. Vasanji Rd., Bombay 400059.

Alco Corpn., 12, Gurumukh Sagar, 29th Rd., Bombay 400050.

Aldowiet Engg. Co., Minerva Compound, Bunder Rd., Sewree (East), Bombay 400015.

Almin Inds., 4, Whites Rd., Madras 600014.

Aluminium Enterprises, 65, M. Gandhi Rd., Bombay 400023.

Amerbhoy Dossajee, 148/150, Lohar Chawl, Bombay 400002.

Crystal Corpn., 226, Kalbadevi Rd., Bombay 400002.

Decorative Ceiling Centre, 6-1-1063/B/1, Raj Bhavan Rd., Hyderabad 500004.

Ferro Steel Inds., 36AB, Govt. Ind. Estate, Kandivli, Bombay 400067.

Featherlite Corpn., 136, Mysore Rd., Bangalore 560026.

General Aluminium Corpn., 10, Tumkur Rd., Bangalore 560022.

Mach-Mohan Engg. Enterprise, 610, Commerce House, Medows St., Bombay 400023.

Seth Enterprises, B-34, Malad Co-op. Housing Socy. Ltd., Poddar Park Rd., Malad (E), Bombay 400064.

ALUMINIUM PRODUCTS

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Aluminium Ind. (Assam) Pvt. Ltd., Makum Rd., Tinsukia 786125.

Bihar

Bharat Metal Ind., Bhagalpur 812002.

Gujarat

Bombay Conductors & Electricals Pvt. Ltd., 175/4, Ghodasar, Ahmedabad 380001.

Karnataka

Hindustan Aluminium Corpn. Ltd., 45, Race Course Rd., Bangalore 560001.

Jindal Aluminium Ltd., 16th K. M., Tumkur Rd., Bangalore 562139.

Kerala

Aluminium Ind. Ltd., 1, Ceramic Factory Rd., Kundara, 636402. Quilon Dist.

Maharashtra

Ajit India Private Ltd., 408, Ramon House, Backbay Reclm., Bombay 400020.

Beclawat of India Ltd., Churchgate House, 32/34, V. Nariman Rd., Bombay 400001.

Bralco Metal Inds. Pvt. Ltd., Gupta Mills Est., Reay Rd., Bombay 400010.

Devidayal Aluminium Inds. Pvt. Ltd., Gupta Mills Compd., Reay Rd., Bombay 400010.

Eshaka Dada Bamboowala, 72, Ebrahim M. Merchant Rd., Bombay 400009.

Gem Ind., 130/132, Nishanpada Rd., Bombay 400009.

Indian Aluminium Co. Ltd., Air India Bldg., Nariman Point, Bombay 400021.

J. B. Metal Inds. Pvt. Ltd., Saki Vihar Rd., Saki Naka, Bombay 400072.

Jeewanlal (1929) Ltd., Liberty Bldg., Marine Lines, Bombay 400020.

Jindal Aluminium Ltd., Prasad Chambers, Swadeshi Mill Compound, Bombay 400004.

Khambete Kothari Cans & Allied Products Pvt. Ltd., B-5, Indl. Area, Ajintha Rd., Jalgaon 425001.

Lallubhai Amichand Ltd., 48/50, Kansara Chawl, Bombay 400002.

Mahavir Metal Works Pvt. Ltd., 17, A. Rehman St., Bombay 400003.

Patel Aluminium Pvt. Ltd., Patel Est., W. Express Highway, Goregaon East, Bombay 400063.

Pitambardas Lallubhai & Co., P. Box 2551, Kalbadevi Rd., Bombay 400002.

Rameshchandra Ltd., 235, Kika St., Bombay 400002.

Rashtriya Metal Inds. Ltd., J. B. Nagar, Andheri, Bombay 400059.

Shuja Metal Centre, 55-57, Nakhoda St., Bombay 400003.

Tamil Nadu

Ajit India Pvt. Ltd., Hamid Bldg., Mount Rd., Madras 600006.

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West Bengal

Ajit India P. Ltd., 35, Chittaranjan Ave., Calcutta 700012.

Aluminium & Alloys Ind., 435, Jessore Rd., Dum Dum, Calcutta 700028.

Aluminium Cables & Conductors Pvt. Ltd., 2A, Shakespeare Sarani, Calcutta 700016.

Aluminium Manufg. Co. Ltd., Jessore Rd., Dum Dum, Calcutta 700028.

Bengal Ind. Corpn., 11, J. D. Jalan Rd., Liluah, Howrah 711204.

Bengal Non-Ferrous Metal Ind., 174, Naskar Para Lane, Ghusury, Howrah 711107.

Bharat Engg. Co., 40, Strand Rd., Calcutta 700001.

Century Aluminium Mfg. Co. Pvt. Ltd., 58/3, B.R.B.B. Rd., Calcutta 700001.

Dhakeswari Aluminium Works, 2B, Bediadanga 1st Lane, Calcutta 700039.

Durlabh Metal Ind. Pvt. Ltd., 83, Old China Bazar St., Calcutta 700001.

Eastern Aluminium Fabricators Pvt. Ltd., 17/15, The Mall, Calcutta 700052.

Gopal Ind., 4/5, J. Bibi Rd., Ghusury, Howrah 711107.

Harish Metal Ind., 1, K. Jalan Rd., Ghusury, Howrah 711007.

Howrah Metal Casting Works, 22, Belur Rd., Liluah, Howrah 711204.

Howrah Metal Ind., 46/1, Kamini School Lane, Howrah 711101.

Indian Aluminium Co. Ltd., 1, Middleton St., Calcutta 700016.

Industrial Trdg. Corpn., 14, N. S. Rd., Calcutta 700001.

J. Nagardas & Co., 55/3, B. R. Basu Rd., Calcutta 700001.

Kutir Udyog Kendra, 58/3, Canning St., Calcutta 700001.

Lotus Trading Co., 7, Santosh Mitra Square, Calcutta 700012.

Luxmi Metal Works, 40/A, Armenian St., Calcutta 700001.

L. Madanlal (Aluminium) P. Ltd., 46, Strand Rd., Calcutta 700007.

National Metal Works, 247, G. Trunk Rd., Belur Bazar, Howrah 711106.

North Bengal Iron & Aluminium Inds., Burdwan Rd., Siliguri 734401.

Palash Metal Works, 96/98, Dharamtolla Rd., Ghusury, Howrah 711107.

Patel Ind., 17/1, Belur Rd., Liluah, Howrah 711204.

Pioneer Metal Works, 40, Strand Rd., Calcutta 700001.

Premier Irrigation Equipment Pvt. Ltd., 17/1C, Alipore Rd., Calcutta 700027.

S. P. Metal Ind., 5, Narayan Prasad Babu Lane, Calcutta 700007.

Shankar Metal Ind., 38/39, Jaya Bibi Rd., Ghusury, Howrah 711107.

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Cirugia Delux Pvt. Ltd., 24, J. Nehru Rd., Calcutta 700013.

Eastern Trdg. Corpn., 849, Lajpat Rai Market, Chandni Chowk, Delhi 110006.

Glenand Products, 2, M. Gandhi Rd., Bangalore 560001.

Ocean Surgical Co., 51/2, D. B. Gupta Rd., Karol Bagh, New Delhi 110005.

P. Basak & Co., 9, C. Modi Lane, Calcutta 700006.

Shaw Wallace & Co. Ltd., 4, Bankshall St., Calcutta 700001.

Sunil Engg. Works, Sindwaimata Rd., Pratapnagar, Vadodara 390004.

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Balaji Foods & Feeds Pvt. Ltd., Turka-Yanjal Village, Post Mangalpally, Hyderabad 501510.

Hy-Fed, Poultry & Cattle Feeds, 4-1-87, Tilak Rd., Hyderabad 500001.

Taraka Feeds, D.No. 6-10-23, 10/1, Arundalpet, Guntur 522002.

T. G. Lakshmayya Setty & Sons, P.B. 28, Adoni 518301.

Delhi

Nandi Provender Mills, 33, Najafgarh Ind. Area, New Delhi 110015.

Gujarat

Cattle Feed Factory, Lodhawad Chowk, Gondal Rd., Rajkot 360002.

Shah Chemicals & Fertiliser Pvt. Ltd., 1875, Dhan Nivas, Krishnanagar, Bhavnagar 364001.

Karnataka

Bramhappa Tavanappanavar Pvt. Ltd., Krishnaraja Rd., P.B. 7, Davangere 577001.

Mysore Feeds Ltd., 283-284, Old Tharagupet, P.B. 7884, Bangalore 560002.

Ravi Vegetable Oil Industries, P.B. 205, Pune-Bangalore Rd., Davangere 577002.

Sunfarm Feeds (A Div. of Sundatta Foods & Fibres Ltd.), Karwar Rd., P.B. 27, Hubli 580020.

Yarana Feeds & Farms, B-55/56, Indl. Est., Hubli 580020.

Madhya Pradesh

Bhandari Crosfields (Pvt.) Ltd., 27, M. Gandhi Rd., Indore 452001.

Jai Kisan Agro Inds., 31-33, Udyog Nagar, Indore 452001.

Maharashtra

Delux Feed Products Pvt. Ltd., 46, Eastern Chambers, Poona St., Bombay 400009.

Foods, Fats & Fertilisers Ltd., Johari Mansion, 259, Kalbadevi Rd., Bombay 400002.

Godrej Soaps Pvt. Ltd., Eastern Express Highway, Vikhroli, Bombay 400079.

Hindustan Feed Products, Opp. Sewree Rly. Station (East), Bombay 400015.

Hindustan Lever Ltd., Hindustan Lever House, 165/166, Backbay Recl., Bombay 400020.

Jamnadas Madhavji & Co., Tanna House, 11-A, Wodehouse Rd., Bombay 400039.

Tata Oil Mills Co. Ltd., Sewri Mills, Hay Bunder Rd., Bombay 400033.

Tamil Nadu

A. V. M. Cattle & Poultry Feeds Manufg. Inds., 25/689, R. Gowder St., Coimbatore 641001.

Savaldas Madhavdas, 250, Subbiah Mudaliar St., P.B. 198, Coimbatore 641001.

Shaw Wallace & Co. Ltd., 8/9, Thambuchetty St., P.B. 14, Madras 600001.

Uttar Pradesh

Jay Em Provender Mills, 54/1, Nayaganj, Kanpur 208001.

West Bengal

Ballygunge Fodder Mills, 9, Gurusadaya Rd., Calcutta 700019.

Mahakali Food & Feed Suppliers, 207, M. Debendra Rd., Calcutta 700007.

ARCHITECTS REQUISITES

Andhra Pradesh

Andhra Scientific Co. Ltd., Machilipatnam 521001.

Kerala

Govt. Instruments Workshop, Ind. Estate, Pappanamcode 695018.

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Hindustan Ferodo Ltd., L. B. Shastri Marg, Ghatkopar, Bombay 400086.

Hiralal Gokaldas Dalal & Co., 45, N. Cross Lane, Bombay 400003.

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Industrial Sales Corpn., 26, Strand Rd., Calcutta 700001.

J. D. Jones & Co. Ltd., C-5, Gillander House, 8, N. Subhas Rd., Calcutta 700001.

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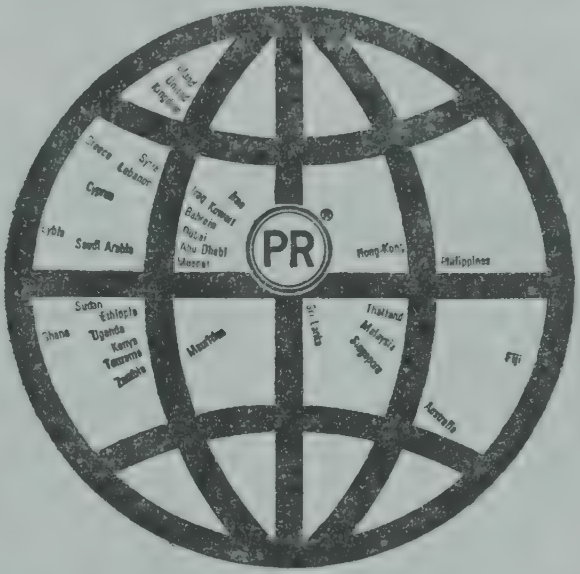
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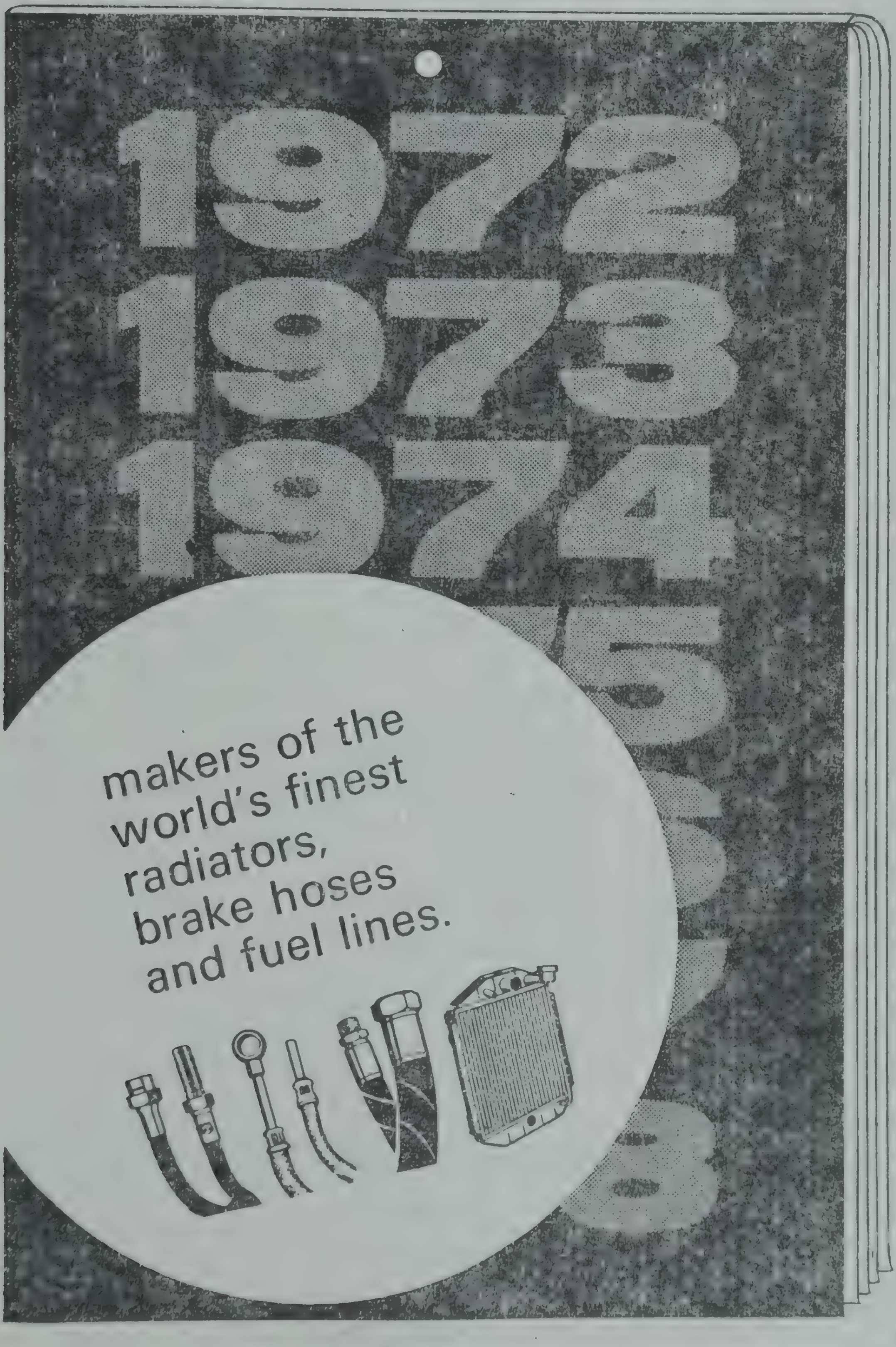
Simpson & Co. Ltd., 202, Mount Rd., Madras 600002.
Standard Motor Products of India Ltd., Mount Rd., Madras 600002.
Sundaram Abex Ltd., Padi, Madras 600050.
Sundaram Clayton Ltd., Padi, Madras 600050.
Sundaram Fasteners Ltd., Padi, Madras 600050.
Sundaram Industries Pvt. Ltd., TVS Bldg., West Veli St., Madurai 625001.
Unicorn Pvt. Ltd., 29, Mount Rd., Madras 600002.
Union Co. (Accessories) Pvt. Ltd., 29, Mount Rd., Madras 600002.
Universal Radiators Pvt. Ltd., Mettupalayam Rd., Coimbatore 641011.
Upper India Bearings Ltd., A-23, Indl. Est., Madras 600032.
Western Thompson (I) Ltd., Pozhal, Madras 600066.
Wheels India Ltd., Padi, Madras 600050.

Year in, year out



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Wheels & Rims Co. of India Ltd., Huzur Gardens, Madras 600011.

Uttar Pradesh

Abilities India Pvt. Ltd., Gyani Border, Ghaziabad 201006.
Hind Auto Inds. Ltd., 1, M. M. Malviya Marg, Lucknow 226003.
Jain Miniature Bulb Ind., 18, A. Pokharpur, Kanpur 208001.
Kissan Engg. Works Pvt. Ltd., 19, G. T. Rd., Ghaziabad 201003.
Meghdoot Pistons Pvt. Ltd., 6, Ind. Estate, Agra 282001.
Miniature Bulb Ind., (India) Pvt. Ltd., 131, Kanwali Rd., Dehra Dun 245001.
Reinz Talbros Pvt. Ltd., 19A, Loni Ind. Estate, Ghaziabad 201001.
Scooters India Ltd., Post Bag No. 1, Sarojini Nagar, Lucknow 226008.

West Bengal

A. R. Pvt. Ltd., P-74, Lake Rd., Calcutta 700001.
Ahuja & Co., 82, Chetla Rd., Calcutta 700027.
Bharat Automobile Ind., 7, G. Chandra Ave., Calcutta 700013.
Duncan Bros. & Co. Ltd., 31, N. Subhas Rd., Calcutta 700001.
Fritz & Singh Pvt Ltd., 227, N. S. C. Bose Rd., Calcutta 700047.
Guest, Keen, Williams Ltd., 3/A, Shakespeare Sarani, Calcutta 700071.
Henry Morgan & Co., Gupta Mansions, 71A, N. Subhas Rd., Calcutta 700001.
Hind Die-Castings Pvt. Ltd., 100/101, Dharamtola Rd., Howrah 711106.
Hindustan Motors Ltd., 9/1, R. N. Mukherjee Rd., Calcutta 700001.
John Fowler (India) Ltd., 136B, R. B. Ave., Calcutta 700029.
Nipha Machinery Manufrs. Pvt. Ltd., 25, N. Subhas Rd., Calcutta 700001.
Orient General Ind. Ltd., 111/1, Barrackpore Trunk Rd., Calcutta 700035.
Sankey Wheels Ltd., 3A, Shakespeare Sarani, Calcutta 700016.
Sen Raleigh Ltd., 1, Middleton St., Calcutta 700071.
Star Sheet Metal Works Pvt. Ltd., 25, Panchanantala Rd., Calcutta 700048.
Tecalemit (Hind) Ltd., Gopalpur-Budge Budge Rd., P.O. Sarkarpool, *Via* Maheshtala 743352. 24-Parganas.
Usha Automobile & Engg. Co. Ltd., 2, Ramgopal Ghosh Rd., Calcutta 700002.
Usha Telehoist Ltd., 14, Prinsep St., Calcutta 700013.
Veegal Engines & Engg. Ltd., 31, Chittaranjan Ave., Calcutta 700012.
Vijayshree Commercial Pvt. Ltd., 4, India Exchange Place, Calcutta 700001.

AYURVEDIC MEDICINES

Arya Vaidyashala, Kottakal 676503. Kerala.
Ayurveda Rasa Shala, Karve Rd., Pune 411004.
D. K. Sandu Bros. (Chembur) Pvt. Ltd., Chembur, Bombay 400071.
Dhootapapeshwar Pvt. Ltd., 135, N. Desai Rd., Bombay 400004.
Saugar Ayurvedashram Pharmacy, 304, North Raj Mohalla, Indore 452002.
Shree Niranjan Ayurved Sadan, Bawri Gate, Sikar 332001 (Rajasthan).
Vaidyaratnam Oushadhasala, Thaikkattuseri, Ollur, Trichur 680306.

BADGES & EMBLEMS

Amar Plastic Industries, 43, M. Karve Rd., Bombay 400002.
Excel Process Pvt. Ltd., 117, M. Vasanji Rd., Bombay 400069.
Nufields Gift Advertising, Unit 7, 2nd fl., Vivek Ind. Estate, Mogul Lane, Mahim, Bombay 400016.

BAKELITE, PLASTIC & NYLON MOULDING

Novelty Plastics, Dayalal Compound, Opp. Petrol Pump, Malad (West), Bombay 400064.

BAKING MACHINERY

Indo-Burma Petroleum Co. Ltd., Gillander House, N. Subhas Rd., Calcutta 700001.
Sembhi Ind., Hoshiarpur Rd., Jullundur City 144001.
Small Machinery Manufg. Co., 22 R. G. Kar Rd., Shambazar, Calcutta 700004.

BALL & ROLLER BEARINGS

(See Bearings — Ball, Bi-Metal, Roller & Needle in this list.)

BALL POINT PEN & REFILLS

(See also Pens — Ball Point)

Balkrishna Pen P. Ltd., Nagardas Rd., Andheri, Bombay 400069.
Easyrite Corporation, 309, Lotus House, 33-A, New Marine Lines, Bombay 400020.
Jayesh Refill Mfg. Co., Old Nagardas Rd., Andheri East, Bombay 400069.
Joshi Formulabs Pvt. Ltd., 9, Lati Plot, Rajkot 360001.
Lion Pencils Pvt. Ltd., Parijat, 95, Marine Drive, Bombay 400020.
Motiram Harkrishinlal, 273, Abdul Rehman St., Bombay 400003.
Plastall Plastic Ind., Asian Chemical Compd., Jogeshwari East, Bombay 400060.
Sanghvi Swiss Refills Pvt. Ltd., Nagardas Rd., Andheri East, Bombay 400069.
Watumull Ind. Pvt. Ltd., 9-9A, S. Patkar Mrg., Bombay 400036.

BARBED WIRE

(See Wire Products in this list)

BARGES (STEEL)

West Coast Lighterage Co. Pvt. Ltd., Bajaj Bhavan, Nariman Pt., Bombay 400021.

BARRELS & CASES — WOODEN

Cooper & Sons, D. N., 78/80, Kika St., Gulalwadi, Bombay 400004.
R. K. Enterprises, 16A, Horniman Circle, Bombay 400001.

BARRELS, BUCKETS, DRUMS & STEEL AND TIN CONTAINERS

Andhra Pradesh

Hyderabad Tin Products Ltd., Mushirabad, Hyderabad 500020.

Delhi

Kumar Bros. Sheet Metal Works, Bahadurgarh Rd., Delhi 110006.

Sheet Metal Co. of India, 62, Najafgarh Rd., New Delhi 110015.

Gujarat

Apurva Containers Pvt. Ltd., Navbharat Mills Compound, Naroda Rd., Ahmedabad 380002.

Baroda Containers Pvt. Ltd., Old Padra Rd., Vadodara 390001.

Baroda Tin Works, Apollo House, Pratap Nagar Ind. Estate, Vadodara 390004.

Gujarat Metal Box Co., Opp. Madhusudhan Textiles, Naroda Rakhial X Rd., Ahmedabad 380002.

Kathiawar Metal Tin Works Ltd., Near Lati Plot, Rajkot 360001.

Karnataka

Metal Box Co. of India Ltd., Jepoo, Mangalore 575001.

Mysore Hollowares Corpn., F-63, Ind. Estate, Rajajinagar, Bangalore 560010.

Kerala

Datta Tin Works Pvt. Ltd., Srikandath Rd., Ernakulam, Cochin 682016.

Maharashtra

Agarwal Containers Pvt. Ltd., 799/5, Bhavanipeth, Pune 411002.

Asnew Drums Pvt. Ltd., Nagindas Chambers, P. D'Mello Rd., Bombay 400001.

Bharat Barrel & Drum Manufg. Co. Pvt. Ltd., Fergusson Rd., Bombay 400013.

Bharat Bucket Factory, 153/55/77, Upper Duncan Rd., Bombay 400008.

Bharat Tank & Steel Co., Podar Chambers, Parsee Bazar St., Bombay 400001.

Bhoruka Drum & Allied Ind. Pvt. Ltd., 11-B, Wagle Estate, Thane 400604.

Bombay Drums Manufrs., Safia Manzil, 24, Calicut St., Bombay 400001.

Can Manufg. Co. Pvt. Ltd., Plot No. 16, Ind. Estate, Kandivli, Bombay 400067.

Diamond Drum & Bucket Factory, 168, Parshuram Puppala Mrg., Two Tanks, Bombay 400008.

Eastern Drum & Bucket Factory, Bengali House, 5th Lane, Kamathipura, Bombay 400026.

Hindustan Sheet Metal Works, 1076, Dr. E. Moses Rd., Worli, Bombay 400018.

Hydro (Engg.) Ltd., 19, Matharpacady Rd., Bombay 400010.

Indian Metal Can Manufrs. Pvt. Ltd., R. S. Nimbkar Marg, Bombay 400008.

Jetha Drums & Containers Pvt. Ltd., Opp. Byculla Goods Depot, Bombay 400027.

K. T. Kubal & Co. Pvt. Ltd., 40, R. S. Nimbkar Marg, Bombay 400008.

Keena Barrels Manufg. Co. Pvt. Ltd., 92, Raviwar Peth, Pune 411002.

Poysha Ind. Co. Ltd., Messant Rd., Bombay 400033.

Raj Bucket Factory, 58B, M. Azad Rd., Rangwala Compound, Bombay 400011.

Saifee Bucket Factory Pvt. Ltd., 37, Sankli St., Bombay 400008.

Steel Containers Ltd., 149, Jackeria Bazar Rd., Bombay 400015.

Super Tin Containers Pvt. Ltd., D-7, Udyog Sadan II, Central Rd., Andheri East, Bombay 400093.

Tayabi Bucket Factory, 174/178, Janjikar St., Bombay 400003.

Union Steel Ind., Hadapsar Ind. Estate, Pune 411013.

Universal Containers Pvt. Ltd., Nafees Chambers, Quay St., Darukhana, Bombay 400010.

Punjab

Aminchand Bholanath, Tanda Rd., Jullundur 144001.

Watkins Mayor & Co., Empress Garden Rd., Jullundur 144001.

Tamil Nadu

Can Manufg. Co., 295, T. H. Rd., Madras 600021.

Chitram & Co. Pvt. Ltd., Royapuram, Madras 600013.

Gopal Engg. Works, 88/89, Suryanarayana Chetty St., Royapuram, Madras 600013.

Madras Metal Can Manufrs., C-21-A, Ind. Estate, Madras 600058.

Uttar Pradesh

Metal Press Works Ltd., Freeganj, Agra 282004.

West Bengal

Agarwal Hardware Ind., 24, Old China Bazar St., Calcutta 700001.

Bengal Bucket & Engg. Works, 143/1/1, Cotton St., Calcutta 700007.

Bengal Ind., 23A, N. Subhas Rd., Calcutta 700001.

Bhalotia Metal Mfg. Co., 2, D. Jain Temple Rd., Calcutta 700007.

Bharat Barrel & Drum Manufg. Co., 2, Garstin Place, Calcutta 700001.

Bharat Steel Metal Ind. Ltd., 14/2, Old China Bazar St., Calcutta 700001.

Calcutta Iron & Engg. Co. Pvt. Ltd., 109A/A, B.R.B. B. Rd., Calcutta 700001.

Containers & Closures Ltd., 19, N.S. Rd., Calcutta 700001.

Containers (India) Ltd., 18, C. C. Ghosh Rd., Belgachia, Calcutta 700037.

Dhur Galvanizing Works (1955) Pvt. Ltd., 92, Ultadanga Main Rd., Calcutta 700004.

East India Metal Co. Pvt. Ltd., 41/1B, R. K. Bose St., Calcutta 700003.

Economic Tanks Supply Co., 100, M. Gandhi Rd., Calcutta 700007.

Goodman & Co. (India) Pvt. Ltd., 38, N. Subhas Rd., Calcutta 700001.

Hind Galvanising & Engg. Co. Pvt. Ltd., 96, Garden Reach Rd., Calcutta 700023.

Industrial Containers Pvt. Ltd., P4/1, Oil Installation Rd., Calcutta 700013.

Kamala Sheet Metal Ind. Pvt. Ltd., 98 & 99, Beliaghata Main Rd., Calcutta 700010.

Laxmi Trdg. Co., 192, J. Bajaj St., Calcutta 700007.

M. L. Day & Co., 36, G. C. Ave., Calcutta 700013.

Metal Press Works Ltd., 165, L. Chitpur Rd., Calcutta 700001.

Roy-Singha Engg. Works, 639, Diamond Harbour Rd., Behala, Calcutta 700034.

Simplex Engg. & Foundry Works, 3A, Garstin Place, Calcutta 700001.

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Amco Batteries Ltd., Unity Bldgs., Narasimharaja Square, Bangalore 560002.

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Kerala

Toshiba Anand Batteries Ltd., XXX1/1089, M.G. Rd., Cochin 682011.

Madhya Pradesh

J. K. Batteries, 1-A, Indl. Area, Govindpura, Bhopal 462023.

Maharashtra

Crompton Greaves Ltd., Kanjur, Bombay 400078.

Estrella Batteries Ltd., Plot No. 1, Dharavi Rd., Matunag, Bombay 400019.

Havero Inds. Ltd., Indl. Est., Lalbaug, Bombay 400012.

Tamil Nadu

Indo National Ltd., 30, General Patter's Rd., Madras 600002.

Uttar Pradesh

Geep Flashlight Ind. Ltd., 28, South Rd., Allahabad 211001.

West Bengal

Flash Lights India Pvt. Ltd., 135, Princep St., Calcutta 700001.

Graphite India Ltd., 31, J. L. Nehru Rd., Calcutta 700016.

National Carbon Co., 5, Rustomji Parsi Rd., Calcutta 700002.

Union Carbide India Ltd., 1-3, Brabourne Rd., Calcutta 700001.

BATTERIES—STORAGE

Andhra Pradesh

Auto Globe Batteries, Old Malkapet, Hyderabad 500001.

Bihar

Bihar Storage Battery Co., Station Rd., Ranchi 834001.

Hindustan Batteries, Purulia Rd., Kantatoli Chowk, Ranchi 834001.

Unique Battery Manufg., Naya Bazar, Dhanbad 826001.

Delhi

Acme Batteries Pvt. Ltd., Grand Trunk Rd., Delhi 110032.

Battery Separators Pvt. Ltd., 1671, Kashmere Gate, Delhi 110006.

Gambhir Battery Co., 9, Gokhale Market, New Delhi 110006.

Globe Engg. Corpn., 2547, Rajguru Rd., Pahar Ganj, New Delhi 110055.

India Battery Separators Co., Pataudi House, New Delhi 110002.

Leela Separators Pvt. Ltd., 153, Ind. Estate, New Delhi 110020.

Sahni Bros. (India), H/34, Connaught Circus, New Delhi 110001.

Spartan Batteries, 1651, S. P. Mukherji Marg, Delhi 110006.

Super Batteries, 2291/16, Arya Samaj Rd., Karol Bagh, New Delhi 110005.

Supreme Auto Works, B/93, Okhla Indl. Est., Phase II, New Delhi 110020.

Gujarat

Abdul Samad Abdul Kader & Co., Kalupur, Ahmedabad 380001.

Autobat Batteries Pvt. Ltd., Ratan Talao, Nadiad 387001.

Bansi Ind. Corpn., Raghunathpura, Surat 395001.

Everest Ind. Corpn. Pvt. Ltd., Pratapnagar, Vadodara 390001.

Jyoti Ltd., Chemical Ind. P.O., Vadodara 390004.

Navinchandra Engg. Works, 44, Bharatkhand Cotton Mills Comp., Naroda Rd., Ahmedabad 380009.

Karnataka

Amco Batteries Ltd., Unity Bldgs., Narasimharaja Sq., Bangalore 560002.

Mysore Electro Chemical Works Ltd., P. Box 1022, Bangalore 560003.

Madhya Pradesh

Apollo Batteries, Punjab Tyresole Bldg., K. K. Rd. Raipur 492001.

Park Batteries, 36, A. B. Rd., Biacra, Rajgarh 465661.

Maharashtra

Acme Batteries Ltd., 16B, Gokhale St., Bombay 400004.

Bower Battery Manufg. Co. Pvt. Ltd., 54, S. Vivekanand Rd., Goregaon, Bombay 400062.

Estrella Batteries Ltd., Plot No. 1, Dharavi Rd., Matunga, Bombay 400019.

Excel Battery Inds., 202, Shilay Estate, 8, Udyog Nagar, S. V. Rd., Goregaon West, Bombay 400062.

Himco India Pvt. Ltd., 542, Sandhurst Bridge, Bombay 400007.

Holmes Laboratory, Forjett Hill, Bombay 400036.

Lucas Indian Service Pvt. Ltd., Electric Mansion, A. Marathe Mrg., Prabhadevi, Bombay 400025.

Premier Auto Electric Pvt. Ltd., 69, Tardeo Rd., Bombay 400034.

Regal Battery Corpn., 48/A, Saki Naka, Off Saki Vihar Rd., Bombay 400072.

Rita Battery Manufg. Co., Deccan Gym., Pune 411004.

Ruby Battery Corpn. Pvt. Ltd., 31, French Rd., Chowpatty, Bombay 400007.

Sethi Batteries, Gaddigudam, Nagpur 490001.

Silver Batteries, 2, Annesley Rd., Bombay 400007.

Standard Batteries Ltd., Vakola, Santa Cruz East, Bombay 400055.

Super Power Batteries India Pvt. Ltd., Krishna Nivas, M. Parmanand Mrg., Bombay 400004.

Winner Batteries, 7, Udyog Nagar, S. Vivekanand Rd., Goregaon West, Bombay 400062.

Orissa

Orissa Battery Inds., Indl. Estate, Rourkela 769001.

Spark Battery Manufg. Co. Ltd., Ind. Estate, Cuttack 753001.

Tamil Nadu

Ennor Batteries Pvt Ltd., 5, Greames Rd., Madras 600006.

J. C. Batteries, 155, East Veli St., Madurai 625001.

Standard Batteries Ltd., Oldham Divn., Post Box No. 2635, Madras 600032.

Tamil Nadu Alkaline Batteries Ltd., 3-A, Sterling Rd., Numgambakkam, Madras 600034.

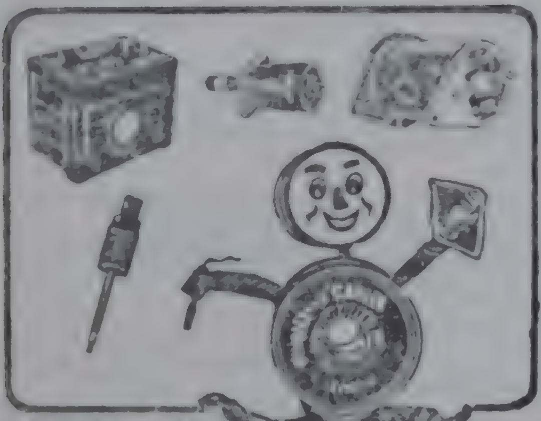
Toshiba Anand Batteries Ltd., 26, Errabalu Chetty St., Madras 600001.

Uttar Pradesh

Geep Flashlight Inds. Ltd., 28, South Rd., Allahabad 211001.

King Battery Works, 119, Grand Trunk Rd., Kanpur 208012.

Willard India Ltd., Sikandrabad Ind. Estate, Sikandrabad 203205, Bulandshahr Dist.



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Accurate Power Ind., 3/1A, Barrackpore Trunk Rd., Calcutta 700002.

Battery Manufg. Cartel, 468, Calcutta Jessore Rd., Calcutta 700028.

Bharat Battery Manufg. Co. Pvt. Ltd., 238A, Acharya J. C. Bose Rd., Calcutta 700020.

Calcutta Storage Battery Co. Pvt. Ltd., 42, G. C. Ave., Calcutta 700013.

Chloride India Ltd., 240-E, Acharya J. C. Bose Rd., Calcutta 700020.

Desapriya Auto Works, 115, Bidhan Sarani, Calcutta 700004.

Eastern Battery Ind., 1-B, Paul St., Calcutta 700004.

Electrical Storage Battery Manufg. Co., P. 4, P. C. Nahar Ave., Calcutta 700013.

Free India Dry Accumulators Ltd., 36, Chowringhee Rd., Calcutta 700016.

Oriental Battery Manufg. Co., Grand Trunk Rd., South Howrah 711101.

P. Kishore & Co., 96-A, Chittaranjan Ave., Calcutta 700012.

Sun Battery Co., Pvt. Ltd., 166, U. C. Bannerji Rd., Calcutta 700001.

Supreme Battery Manufg. Co. Pvt. Ltd., M. Ganguly Rd., Calcutta 700002.

Tigon Battery Products, 14, G. C. Mukerjee Rd., Calcutta 700002.

BATTERY CHARGERS & ELIMINATORS

Delhi

Bandlish Bros., 53, Panchkuin Rd., New Delhi 110001.

Emgee Corpn., 1543, Bhagirath Place, Chandni Chowk, Delhi 110006.

Intercontinental Agencies Pvt. Ltd., Atma Ram Singh Mansion, 1/21, A. Ali Rd., New Delhi 110001.

Modern Trading Co. (Delhi) Pvt. Ltd., Bush House, XI/3833, Pataudi House Rd., Delhi 110006.

Sham Ravindra & Co., 23, New Qutub Rd., Delhi 110006.

Gujarat

Continental Electronics, 177/4, Naroda Indl. Estate, Naroda 382330. (Ahmedabad Dist.).

Karnataka

Electric Power Devices Co., Canara Mutual Bldg., 4, Residency Rd., Bangalore 560025.

Mysore Thermo Electric Pvt. Ltd., 36, Peenya Ind. Area, 3rd Phase, Peenya, Bangalore 562140.

Maharashtra

Asian Traders, 60-A, Girgaum Rd., Bombay 400004.

Chhabi Electricals, 20, Anupam Indl. Est., Bombay 400080.

General Auto Electric Corpn., Dr. Bhadkamkar Mrg., Near Minerva Talkies, Bombay 400007.

Semiconductors Ltd., Radia House, Rampart Row, Bombay 400001.

Star Delta Electricals, Bharat Coal Compound, Bail Bazar, Bombay 400070.

Tamil Nadu

Associated Engineers, Post Box 373, Madras 600002.

G. Janshi & Co., 2/163, Mount Rd., Madras 600002.

West Bengal

Metro Ind. Works, 94, B. Ghose Rd., Calcutta 700040.

Summit Pvt. Ltd., 3, Esplanade East, Calcutta 700069.

BEARINGS—BALL, BI-METAL, ROLLER & NEEDLE

Andhra Pradesh

Indo-Nippon Precision Bearings Ltd., Moula Ali, Hyderabad 500040.

Delhi

Hind Electronic Ind., 69, Najafgarh Rd., New Delhi 110015.

Gujarat

Precision Bearings India Ltd., Maneja, Vadodara 391710.

Suessen Textile Bearings Ltd., Near Makarpura, Vadodara 391710.

Karnataka

Premier Bearing Co., M.S.R. Prasad Ind. Estate, Bangalore 560054.

Rollon Bearings Pvt. Ltd., 22-B, Doddamavalli Indl. Area, Bangalore 560048.

Maharashtra

Amber Bearing Mfg. Co. Pvt. Ltd., G-3, MIDC Hingna Ind. Area, Hingna Rd., Nagpur 440016.

Antifriction Bearings Corpn. Ltd., 402-B, Poonam Chambers, A. Besant Rd., Bombay 400018.

Associated Bearing Co. Ltd., Chinchwad, Pune 411033.

B. Kolben (India), 43, Dhanji St., Bombay 400003.

Bearings & Bushings Corpn., 10, Anupam Ind. Estate No. 3, Opp. Ralliwolf Ltd., Mulund, Bombay 400080.

Gleitlager (India) Pvt. Ltd., Manu Mansion, 16, Bhagat Singh House Rd., Bombay 400001.

KC Bearings Pvt. Ltd., 4, Kirti Kunj, 14th Rd., Khar, Bombay 400052.

Needle Roller Bearing Co. Ltd., 2nd Pokhran Rd., Thane 400606.

New Haven Steel Ball Corpn. Pvt. Ltd., 309, P. D'Mello Rd., Bombay 400001.

Precision Bearings (I) Ltd., Jolly Maker Chambers 1, 8th Flr., 227, Backbay Rec., N. Point, Bombay 400021.

Safe Ball Bearing Corpn., Nagdevi Cross Lane, Bombay 400003.

Skefko India Bearing Co. Ltd., M. Gandhi Memorial Bldg., N. Subhas Rd., Bombay 400002.

Unimac Auto Pvt. Ltd., 511, Prasad Chambers, Tata Rd., No. 2, Bombay 400004.

Union Bearing Mfg. Co., 511, Prasad Chambers, Tata Rd., No. 2, Bombay 400004.

Universal Bearings Co. Pvt. Ltd., 11, Temple View, Hughes Rd., Bombay 400007.

Rajasthan

National Engineering Ind. Ltd., Jaipur 302001.

Tamil Nadu

Bimetal Bearings Ltd., Coimbatore 641018.

Upper India Bearings Pvt. Ltd., A-23, Ind. Estate, Madras 600032.

West Bengal

Ambica Mill Stores, 138, B.R.B.B., Calcutta 700001.

General Bearing and Engg. Co., 138, B. R. B. B. Rd., Calcutta 700001.

SKF Ball Bearing Co. Ltd., 11, R. N. Mukherjee Rd., Calcutta 700001.

Shriram Bearings Ltd., 3A, Shakespeare Sarani, Calcutta 700016.

BELTINGS, HAIR, V-BELTS ETC.

Asia Belting & Spg. Mills Ltd., 91, Netaji Subhas Rd., Calcutta 700001.

Bengal Belting Works Ltd., 2, Dalhousie Square East, Calcutta 700001.

Birkmyre Brothers Pvt. Ltd., 87, Stephen House, Calcutta 700001.

Eastern Belting & Cotton Mills Pvt. Ltd., 20, N. Subhas Rd., Calcutta 700001.

Falcon Tyres Ltd., 5, Crescent Rd., High Grounds, Bangalore 560001.

Fenner India Ltd., Pandyan Bldgs., West Veli St., Madurai 625001.

Hilton Rubbers Pvt. Ltd., 209, Ansal Bhavan, K. Gandhi Mrg., New Delhi 110001.

Himalaya Rubber Products Ltd., 18-B, Brabourne Rd., Calcutta 700001.

Lewis & Taylor Pvt. Ltd., Commerce House, Currimbhoy Rd., B. Estate, Bombay 400038.

Mercury Rubber Mills, 2/7, D. B. Gupta Rd., New Delhi 110055.

Nimish Trading Co., Post Box 1354, Bombay 400038.

Pondy Rubber Products, A-12, Mettupalayam Ind. Estate, Pondicherry 605001.

Rostron & Co. Pvt. Ltd., 10, Govt. Place East, Calcutta 700001.

Samsons Rubber Inds. Pvt. Ltd., Plot 3, Sidco Ind. Estate, Madras 600098.

Serampore Belting Works Pvt. Ltd., Serampore 712201. Hooghly Dist.

Super Rubber Enterprises (Regd.), 71/3, Mile Stone, G. T. Rd., Karnal 132001. (Haryana).

Vikram Belts Ltd., 12-G, Shanti Kunj, Opp. G.P.O., Pune 411001.

Yenpeyess Rubber Pvt. Ltd., 52, Mundaga Nadar St., Sivakasi 623123.

BICYCLES & ACCESSORIES

Assam

Everest Cycles Ltd., Gopinath Nahar, Gauhati 781001.

Delhi

A. K. Cycle Ind., Dilshad Garden, Delhi 110032.

H. R. Bhalla & Sons Pvt. Ltd., 3, Faiz Bazar, Delhi 110002.

Hitkari Bros. of Delhi, 9, Faiz Bazar, Delhi 110002.

Imperial Technical Works, K78 Hauz Khas, Delhi 110016.

Indian Cycle & Wire Inds., 30, DLF Indl. Area, New Delhi 110015.

Matchless Ind. of India, 236, DLF Indl. Area, New Delhi 110015.

New Era Engg. Co., 26, D.L.F. Ind. Colony, New Delhi 110015.

Raj Cycle Works, F-1, M. Town, New Delhi 110009.

Road King Cycle Co., A-100, Cycle Market, Jhandewalan, New Delhi 110055.

Road King Cycle Ind., 16/194, Faiz Rd., Delhi 110005.

Uttam Cycle Works, 408, R. C. Dehlvi Marg, Delhi 110006.

Zenith Cycle Ind., 9, N. S. Marg, New Delhi 110002.

Haryana

Atlas Cycle Ind. Ltd., Sonepat 131001.

Wearwell Cycle Co. (I) Ltd., Faridabad 121001.

Kerala

Bharat Cycle Ind., Vadakevilla, Quilon 691001.

Madhya Pradesh

Central Cycle Ind., Bhagirathpura, Indore 452001.

Maharashtra

Auto Accessories (I) Ltd., Old Kurla, Bombay 400070.

Bombay Cycle Mfg. Co., 3-B, Udyog Nagar, S. V. Nagar, S. V. Rd., Goregaon (West), Bombay 400062.

Hamilton Industries Pvt. Ltd., Tulsi Pipe Line Rd., off Haines Rd., Bombay 400013.

Hind Cycles Ltd., Worli, Bombay 400018.

Matchless Automobile & Engg. Inds., 42, Benham Hall Lane, Bombay 400004.

Numex Engrs., Commerce House, N. Master Rd., Bombay 400001.

Transmissions Pvt. Ltd., India House, Opp. G.P.O., Bombay 400001.

Pondicherry

Hema Cycles & Gen. Inds., C-15, Mettupalayam Ind. Estate, Pondicherry 605001.

Punjab

Aero Engg. Works, Gill Rd., Ludhiana 141003.

Anand Cycle Ind., 688, Indl. Area 'B' Ludhiana 141003.

Auto Wheel Ind., 137-C, Indl. Est., Ludhiana 141003.

Avon Cycles Ltd., Ind. Area, Ludhiana 141003.

Bicycle Manufg. Co-op. Ind. Society Ltd., Ludhiana 141001.

Birdi Cycle Ind., 565, Ind. Area 'B', Ludhiana 141003.

Chhada Sethi Inds., 103, B. Indl. Est., Ludhiana 141003.

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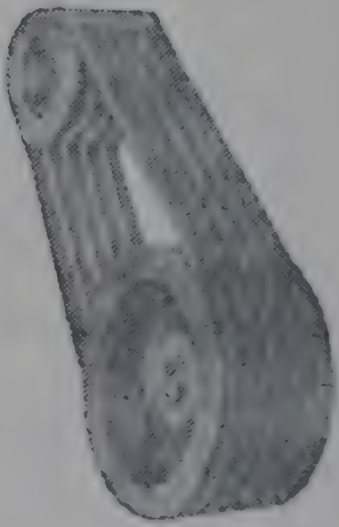

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Kapson Ind., Partap Nagar, St. 6, Ludhiana 141003.
Kashmir Cycle Ind., 742, Muradpura, Millerganj, Ludhiana 141003.
Masco Cycle Ind., 743, Ind. Area 'B', Ludhiana 141003.
Metro Cycle of India, 503, Ind. Area 'D', Ludhiana 141003.
Navyug Bicycle Ind., 52/53-R, Ind. Area 'B', Ludhiana 141003.
Newage Cycle Ind., 657, Vishwakarma St., Ludhiana 141003.
P. K. Chopra Ind., 688, Ind Area 'B', Ludhiana 141003.
Punjab Cycle Parts Mfg. Co., G.T. Rd., Millerganj, Ludhiana 141003.
Rolex Cycle Ind., 726, Ind. Area 'B', Ludhiana 141003.
Road Master Ind. of India Ltd., Rajpura 140401.
Rockman Cycle Ind., 930, Ind. Area-B, Ludhiana 141003.
Shaktiman Cycle Ind., Vishwakarma St. 1, Ludhiana 141003.
Sunflower Cycles Pvt., Ltd., Ind. Area 'B', Ludhiana 141003.
Super Cycle & Allied Ind., 3, Gill Rd., Ludhiana 141001.
Trueline (I) Ind., 724, Ind. Area 'D', Ludhiana 141003.
Vespa Cycle Ind., 49-R, Ind. Area 'B', Ludhiana 141003.

Rajasthan

Elite Engg. Works, Jodhpur 342001.

Tamil Nadu

Govt. Cycle Assembly Unit, Thanjavoor 613001.
T. I. Cycles of India Ltd., Ambattur, Madras 600018.
T. I. Diamond Chains Ltd., Avadi, Madras 600053.
Wheels & Rim Co. of India Ltd., Sembiam, Madras 600011.
Wright Saddles of India, 11/12, N. Beach Rd., Madras 600001.

Uttar Pradesh

Hind Cycles Ltd., Hind Nagar, Ghaziabad 201003.
Popular Cycle Manufg. Co. Pvt. Ltd., Bodla, Agra 282001.
Prakash Engg. Co., Aishbagh, Lucknow 226001.
Rampur Engg. Co. Ltd., Rampur 244901.
Saibra Engg. Works, Aish Bagh Rd., Lucknow 226004.
United Manufg. Co., 20E, Indl. Est., Naini, Allahabad 211008.
Wheel Inds. of India, Bonja Patel Marg, Ghaziabad 201003.

West Bengal

Ancillary Inds. Forging Pvt. Ltd., Block D, Indl. Est., Kalyani 741235.
B. S. Cycle Ind., K. Bhattacharjee Lane, Santragachi, Howrah 711104.
Euresian Equipments & Chemicals Ltd., 7, K. Tagore St., Calcutta 700007.
Indo-Japanese Inds. Ltd., 14, Canal St., Calcutta 700014.
Nundy & Co., P62A, Bentinck St., Calcutta 700001.
Sen-Raleigh Ind. of India Ltd., Mercantile Bldg., Lallbazar St., Calcutta 700001.

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Andhra Pradesh

Engine Mark Bidi Factory, Sitaphal Mandi, Hyderabad 500001.
Kohinoor & Dunia Beedi Factory, R. N. Road, Hyderabad 500002.

Gujarat

Asal Phul Chhap Bidi Factory, Santh Pilli, Nadiad 384001.
Gordhandas Bidi Factory, Station Rd., Vadodara 390001.
Karim Bidi Factory, Little Gate, Ahmedabad 380001.

Karnataka

Malabar Krishna Beedi Factory, Tumkur 572101.
Mangalore Ganesh Beedi Works, Hampankatta, Mangalore 575001.
Prakash Beedi Works, Car St., Mangalore 575001.
P.V.S. Beedi Ltd., Kodialbail, Mangalore 575003.

Kerala

Cannanore Beedi Workers Ind. Co-op. Society Ltd., Madan Bldg., Gopal St., Cannanore 670001.
Kerala Beedi Factory, Chalakudy 680307.
Mangalore Ganesh Beedi Works, Kakkat, Cannanore 670001.
M. S. Photo Beedi Co., Ollur, 680306. Trichur Dist.
P.V.S. Beedies Ltd., Cannanore 670001.
Ring Mark Beedi Co., Main Rd., Ottapalam 679101.
Union Beedi Factory, Manarghat, 678582. Palghat Dist.

Madhya Pradesh

Badshahi Bidi Works, Modai Bhata, M. Gandhi Rd., Raipur 492001.
Prabhulal Patiram & Co., Bidi Factory, Gole Bazar, Raipur 492001.
Tulsibhai Govardhanbhai Beedi Factory, Rewa 486001.

Maharashtra

Bhikusa Yamuna Kshatriya Pvt. Ltd., 42, Guruwar Peth, Pune 411002.
Camel Brand Bidi Factory, No. 1560 Sinnar, Nasik 422001.
Chandratara Bidi Works, 7/3, Bhudhwar, Solapur 413001.
Cock Brand Bidi Factory, 5160/61, Mangalwar Peth, Ahmadnagar 414001.
Jaiprakash Sudhir Pvt. Ltd., Bidi Factory, 3166, Bhagwanpura, Nasik 422001.
Patel Bidi Works, 6-A, Bhawanipeth, Solapur 413001.
Pioneer Industrial Tobacco Works, 153, Imamwadi, Bombay 400009.
Sinnar Bidi Udyog Ltd., Congress House, M. Gandhi Rd., Nasik 422002.
Thakur Savadekar & Co. Pvt. Ltd., 377, Guruwar Peth, Pune 411002.

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Sembhi Industries, Hoshiarpur Rd., Jullundur 144001.

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Shalimar Biscuits Pvt. Ltd., Indl. Est., Hyderabad 500039.

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Kwality Food Products, Mysore Rd., Bangalore 560039.

Mangharam & Sons, Tumkur Rd., Bangalore 560022.

National Products, 135, Kaval Byrasandra, Bangalore 560006.

Madhya Pradesh

Arya Confectionery Works, 111, Ind. Estate, Indore 452003.

J. B. Mangharam & Co., Pvt. Ltd., P.O. Residency, Gwalior 474005.

V. G. Confectionery & Biscuit Factory, 88, Indl. Est., Indore 452003.

Maharashtra

B. N. Biscuit & Confectionery Works, Hathibaugh, Love Lane, Mazagon, Bombay 400010.

Britannia Biscuit Co. Ltd., Reay Rd. East, Mazgon, Bombay 400010.

Hindustan Biscuit & Confectionery Works, Pipe Rd., Bombay 400070.

Huns Dewan & Co., 158, M. Azad Rd., Bombay 400008.

Parle Products Mfg. Co. Pvt. Ltd., Belvandi House, Dr. A. Besant Rd., Bombay 400025.

Renown Biscuit Co., Connaught Rd., Byculla, Bombay 400027.

Sathe Biscuit & Chocolate Co. Ltd., 820, Bhawani Peth, Pune 411002.

Shangrila Food Products Ltd., 60, Great Social Bldg., Sir P. Mehta Rd., Bombay 400001.

Pondicherry

Aurofood Pvt. Ltd., P.O. Auroville 605101.

Punjab

Rieta Biscuit Co. Pvt. Ltd., Factory Area, Patiala 147001.

Tamil Nadu

Britannia Biscuit Co. Ltd., M.T.H. Rd., Padi, Madras 600050.

Dollar Food Corpn., 42, Mount Rd., Guindy, Madras 600032.

Uttar Pradesh

Annapurna Biscuit Manufg. Co., 84/67, G. Trunk Rd., Kanpur 208003.

Kaka Biscuits Manufg. Co., 108/131, Sisamau Bazar, Kanpur 208012.

Sind Biscuits Manufg. Co., 104/A/333, Ram Bagh, Kanpur 208012.

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Kolay Biscuit Co. Pvt. Ltd., Kabi Sukanta Sarani, Calcutta 700010.

Kusum Products Ltd., Bombay Mutual Bldg., 9, Biplabi Trailakya Maharaj Sarani, Calcutta 700001.

Lily Biscuit Co. Pvt. Ltd., 3, R. K. Sen Lane, Calcutta 700004.

Santosh Biscuit Co. Pvt. Ltd., 179A, Manicktola Main Rd., Calcutta 700054.

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Eastern Steel Industries, 21-B, Noble Chambers, S. A. Brelvi St., Bombay 400001.

Hada Steel Products Ltd., Sector 15-A/3, Faridabad 121001.

Harbanslal Malhotra & Sons Pvt. Ltd., 12, New C.I.T. Rd., Calcutta 700012.

Indo Hacks Ltd., ' Sai Krupa ', B-4, IDA, Phase I, Pattancheruvu 502319. (Medak Dist.). A.P.

Laldee Pvt. Ltd., Vijay Press Bldg., Naya Bazar, Delhi 110006.

Machitex Engg. Products, Behind Ajit Mills, Rakhial Rd., Ahmedabad 380023.

Maharashtra Commodity Trdg. Co. Pvt. Ltd., 159, Churchgate Reclm., Bombay 400020.

P. U. Coatings, 11, Bank St., Bombay 400001.

S. S. Miranda Pvt. Ltd., Ashoknagar, Kandivli, Bombay 400067.

Technis Inds., 20-A, Noble Chambers, S. A. Brelvi St., Bombay 400001.

Zenith Engrs., 1/18V, Asaf Ali Rd., New Delhi 110002.

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Edalji Kerawalla & Co., Baria Bldg., Opp. Crawford Market, Bombay 400003.

Escorts Ltd., Pratap Bldg., Connaught Place, New Delhi 110001.

Harbanslal Malhotra & Sons Pvt. Ltd., New C.I.T. Rd., Calcutta 700012.

Hind Razor & Blade Co. Ltd., Ind. Assurance Bldg., Churchgate, Bombay 400020.

Indo-Swing Private Ltd., Narasapur Rd., Balanagar, Hyderabad 500037.

National Razors & Blades Ltd., 4, Dalhousie Sq. East, Calcutta 700001.

Sharpedge Ltd., 34, Okhla Ind. Estate, New Delhi 110020.

Spencer & Co. Ltd., Mount Rd., Madras 600002.

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Bombay Alloy Steel Ind. Pvt. Ltd., 87, Nagdevi Cross Lane, Bombay 400003.

R. S. Traders, People's Insurance Bldg., Sir P. Mehta Rd., Bombay 400001.

Zenith Steel Pipes Ltd., Moti Mahal, 195, Churchgate Recl., Bombay 400020.

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Tufflite Plastics Pvt. Ltd., P. Box 849, Coimbatore 641004.

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Commonwealth Insulation Chemicals & Fertilisers Pvt. Ltd., 38, Nariman Rd., Bombay 400001.

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Lloyd Insulations (India), 6, Middleton St., Calcutta 700016.

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Reynolds Engrs. Pvt. Ltd., 47, GIDC Est., Vatva, Ahmedabad 382445.

SLM-Maneklal Ind., Vatwa, Ahmedabad 380021.

Haryana

Saraswati Ind. Syndicate Ltd., Yamunanagar 135001.

Karnataka

Sree Jayalakshmi Enterprises, No. 10, R. V. Layout, Platform Rd., Seshadripuram, Bangalore 560020.

Maharashtra

Acme Engg. & Allied Products Pvt. Ltd., 3-15, V. Savarkar Marg, Bombay 400028.

B. R. Hermann & Mohatta (India) Pvt. Ltd., Mustafa Bldg., Sir P. Mehta Rd., Bombay 400001.

Citric India Ltd., Empire House, Dr. D. N. Rd., Bombay 400001.

Eastern Textiles, 75, Apollo St., Bombay 400023.

FMC Engg. Works Pvt. Ltd., Sonal Ind. Estate, Off Saki Vihar Rd., Bombay 400072.

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Jignesh Metal Manufg. Co., Subash Nagar, Asian Chemica Compound, Jogeshwari (East), Bombay 400060.

Kosha (India) 1972, 2, N. K. Ind. Estate, Viswashnagar, Off Aarey Rd., Goregaon East, Bombay 400063.

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Saurashtra Engg. Corpn. Pvt. Ltd., 106-7, Bazar Ward, Khetani Ind. Estate, Bombay 400070.

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Varsha Boilers Pvt. Ltd., 5, New Marine Lines, Bombay 400020.

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Jessop & Co. Ltd., 63, N. Subhas Rd., Calcutta 700001.
MacNeill & Magor Ltd., 2, Fairlie Place, Calcutta 700001.
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Associated Engg. Inds., E-75, Indl. Area, Jullundur 144004.
Avdel (I) Ltd., 409, Himalaya House, Palton Rd., Bombay 400001.
Banegar Bros. Engg. Works, 139, Bapu Khote St., Bombay 400003.
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Bolting Manufg. Co., Mehra Ind. Estate, Andheri-Kurla Rd., Bombay 400072.
Bolts, Nuts & Forging Co., 47, Gaushala Rd., Liluah 711204. (W. Bengal).
C. S. K. Industries, 219/C, Old China Bazar St., Calcutta 700001.
Echjay Inds. Pvt. Ltd., Kanjur Village Rd., Bombay 400078.
Fit Tight Nuts & Bolts Ltd., Old Ashram, Andheri Kurla Rd., Bombay 400069.
Guest Keen Williams Ltd., 97, Andul Rd., Howrah 711101.
Heena Nut Bolt Inds., 91, Nagdevi Cross Lane, Bombay 400003.
Indo Foreign Hardware Stores, 193, Nagdevi St., Bombay 400003.
Jagatjit Fasteners Pvt. Ltd., Factory Area, Kapurthala 144601.
Jayant Metal Manufg. Co., 16, Sayani Rd., Bombay 400025.
Jefferson Bolts (India) Pvt. Ltd., 1-8, New Okhla Indl. Complex, Phase II, Scheme II, New Delhi 110020.
L. B. Industries, 21/3, Ind. Area, Azamabad, Hyderabad 500020.
Lallubhai Amichand Pvt. Ltd., 48/50, Kansara Chawl, Bombay 400002.
M. A. Bros., 79, Nagdevi St., Bombay 400004.
Modern India Engg. Co., 146, M. G. Rd., Calcutta 700007.
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Sanjay & Co., 40, Strand Rd., Room No. 9, 1st fl., Calcutta 700001.
Sawalka Metal Products, 23A, N. Subhas Rd., Calcutta 700001.
Seelans Metal Corpn., 34, Mint St., Madras 600003.
Shankar Inds. Ltd., 20, Mangoe Lane, Calcutta 700001.
Sheth Mfg. Works, S. V. Rd., Malad (West), Bombay 400064.
SHI Engineers, 46, SIDCO Indl. Estate, Coimbatore 641021.
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J. K. Steel Ind. Ltd., 7, Council House St., Calcutta 700001.

M. Paul & Bros., 89, N. Subhas Rd., Calcutta 700001.

Maharashtra Plastic Ind., Subash Nagar, Off Caves Rd., Jogeshwari (East), Bombay 400060.

Mysore Vanijya Pvt. Ltd., 31, Mariswamappa Lane, Bangalore 560002.

National Packaging Inds., 341, Tardeo Bldg., Near Tardeo Circle, Bombay 400034.

Nav Bharat Vanijya Ltd., 7, Council House St., Calcutta 700001.

Novel Products, 8-B, Poonam Apartments, Worli, Bombay 400018.

Ochhavlal Chotalal & Co., 207-209, Nagdevi St., Bombay 400003.

Poly Pack, 14, Chand Manzil, Old Bengalipura, Carnac Rd., Bombay 400003.

R. J. Steel & Co., 505, Steel Centre, Iron Market, Bombay 400009.

Rotaseal Packaging Pvt. Ltd., Vithal Udyognagar 388121 (Gujarat).

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BRICKS & TILES

A. N. Bhaskar Sons, 20/4 Km., Mathura Rd., Faridabad 121003.

Acme Tiles Manufg. Co., 494, Duncan Rd., Bombay 400004.

Ajugia Tiles Co., Ghodbunder Rd., Malad West, Bombay 400064.

B. G. Shirke & Co., 72/76, Mundhva, Pune 411013.

Bharat Tiles & Marble Co. Pvt. Ltd., 32, Apollo St., Bombay 400023.

Deepak Tiles Ind. Pvt. Ltd., Bombay-Poona Rd., Tula Bag, Panvel 410206. Kolaba Dist.

Duncan Stone Co., 500, M. Azad Rd., Bombay 400004.

Jashvant C. Shah & Co., Bharati Nivas, Beasant Rd., Santacruz West, Bombay 400054.

Himalayan Tiles & Marble Pvt. Ltd., 17-19, Dalal St., Bombay 400023.

Indiana Tiles & Marble Corpn., 16, Marzban Rd., Bombay 400001.

Jay Tiles Ind., Behind Tejpal Pvt. Ltd., Suren Rd., Andheri (E), Bombay 400072.

Liberty Tiles & Marble Co., Kurla-Vihar Lake Rd., Bombay 400072.

Maha Gujarat Tiles & Marble Co., Panch Kuva, Opp. English Cinema, Ahmedabad 380001.

Modern Tiles Co. Pvt. Ltd., 92, Veer Savarkar Marg, Mahim, Bombay 400016.

N. M. Mehta & Co., 6, Bhagat Singh Rd., Bombay 400001.

National Tiles & Ind. Pvt. Ltd., 31, Hamam St., Above Dena Bank, Bombay 400001.

Nectiles, 31, Hamam St., Bombay 400001.

New India Mosaic & Marble Co. Pvt. Ltd., Ind. Estate, Lalbaug, Bombay 400012.

Niteo Tiles Pvt. Ltd., G-5, Court Chambers, New Marine Lines, Bombay 400020.

Raju Tiles & Marble Ind., Ambernath Rd., Ulhasnagar, 421003, Thane Dist.

Raval & Co., 21, Bank St., Bombay 400023.

Simplex Art Floorings Pvt. Ltd., Lovji Castle, Dr. Rau Rd., Bombay 400012.

BRIGHT STEEL BARS ETC.

Delhi

H. R. Gupta Ind., 33, N. W. Ave., Punjabi Bagh, New Delhi 110026.

New Era Metal & Gen. Inds., 10, Babar Lane, New Delhi 110001.

Omega Bright Steel Pvt. Ltd., 607, Deepali, 92, Nehru Place, New Delhi 110024.

Gujarat

Bright Bar Manufg. Co., M. Gandhi Rd., Bharuch 392001.

Precision Bright Steel Ind., 698, Reid Rd., Ahmedabad 380001.

Haryana

Anand Steel & Wires (Pvt.) Ltd., 13/6, Mathura Rd., Faridabad 121001.

Bhartia & Sons Ltd., 10, Indl. Est., Sector VI, Faridabad 121001.

Karnataka

Bipsi Blades & Turners Pvt. Ltd., 84, Ind. Suburb, Yeshwantpur, Bangalore 560022.

Madhya Pradesh

Indore Bright Bars, 286, M. G. Rd., Indore 452002.

Maharashtra

Aevee Iron & Steel Works Pvt. Ltd., Eldee Chambers, Broach St., Bombay 400009.

Akhandanand Engg. & Trdg. Co., Datta Mandir Rd., Off Bhandup Village, Bombay 400078.

Ashok Nut & Bolts Industries, 6, Udog Nagar, S. V. Road, Goregaon, Bombay 400062.

B. P. Steel Ind. Pvt. Ltd., Mysore Chemical Comp., 39/44, Sion East, Bombay 400022.

Bright Bar Manufg. Co., 401, Cotton Exchange Bldg., Kalbadevi Rd., Bombay 400002.

Chase Bright Steel Ltd., Meher Chambers, Nicol Rd., Ballard Estate, Bombay 400038.

Devidayal Rolling & Refineries Pvt. Ltd., Gupta Mills Est., Reay Rd., Bombay 400010.

Hercules Bright Steel Pvt. Ltd., 86, Mint Rd., Bombay 400001.

India Tubes Mills & Metal Ind. Pvt. Ltd., Dhiraj Chambers, 9, Waudby Rd., Bombay 400001.

Indian Bright Steel Co. Ltd., Meher Chambers, Nicol Rd., Ballard Estate, Bombay 400038.

Indian Bright Steel Co. Ltd., Meher Chambers, Nicol Rd., Ballard Estate, Bombay 400038.

Industrial Bright Steel Co., 23, Alankar Cinema Bldg., Sardar V. P. Rd., Bombay 400004.

Industrial Engg. Co., 51, Bombay Samachar Mrg., Bombay 400023.

Kaykay Janack Wires, 101, Steel Chambers, Broach St., Bombay 400009.

Mehta Engg. Works, B-40, Wagle Indl. Est., Thane 400604.

Nagpur Steel & Alloys Pvt. Ltd., F-11, MIDC Ind. Estate, Hingna Rd., Nagpur 440016.

Pratap Bright Steels Pvt. Ltd., 51, Advent, 12A, Foreshore Rd., Bombay 400021.

R. Amrutlal & Co., 116, N. Dhuru St., Bombay 400003.

R. C. Khandelwal & Co., 38, Indl. Est., Khopoli 410203. Kolaba Dist.

Shah Patel & Co., 111, Nagdevi St., Bombay 400003.

Special Steels Ltd., Dattapada Rd., Bomnay 400066.

Textelo Engg. Works, 52A, Islampura St., Bombay 400004.

Punjab

Hindustan Steel Ind., Rakson House, 43-R, Ind. Area B, Ludhiana 141001.

Tamil Nadu

Durga Bright Bar Mfg. Co., 3/10, Seshachala Gramani Garden St., Sattangadu, Madras 600019.

Indian Bright Steel Co. Ltd., 111/112, Mannady St., Madras 600001.

West Bengal

Allahabad Merchandise Co. Pvt. Ltd., 310, Jessore Rd., Calcutta 700055.

Bagri Steel Ind. (Pvt.) Ltd., 138, B. R. B. B. Rd., Calcutta 700001.

Bells General Inds., 26/1, Strand Rd., Calcutta 700001.

Bhartia Commercial Co. Ltd., B-1, Gillanders House, 8, N. Subhas Rd., Calcutta 700001.

Damehra Steels & Forgings Pvt. Ltd., 15/64, G. T. Rd., Liluah 711204.

Guest Keen Williams Ltd., 97, Andul Rd., Howrah 711001.

Prakash Steel Products, 234, G. Trunk Rd. (North), Howrah 711007.

BRUSHES

Army Brush Factory, 457, Sadar Bazar, Delhi 110006.

Aryan Brush Co. Ltd., Lentin Chambers, Dalal St., Bombay 400023.

Ashish Mfg. Co., Wadala, Bombay 400031.

Baroda Brushware Co., Behind Rly. Stn., Vadodara 390005.

Bombay Brush Co. Pvt. Ltd., 493, Sane Guruji Marg, Bombay 400034.

Climax Brush Works, 123, Amherst St., Calcutta 700009.

Datson Raviraj & Co. Pvt. Ltd., 43, Tamarind Lane, Bombay 400023.

Dey Bros., 23, Biplabi R. B. Bose Rd., Calcutta 700001.

E. A. Currim Pvt. Ltd., 97, Apollo St., Bombay 400023.

New India Brush Inds., 1/31, Ravindrnath Layout, New Siddhapudur, Coimbatore 641018.

BUCKETS

(See Barrels, Buckets, Drums, Steel Containers etc. in this list).

BUILDERS HARDWARE

Amerbhoy Dossajee, 148-50, Lohar Chawl, Bombay 400002.

Nasik Industrial Engineering Corpn., Ram Nivas, Panchavati, Nasik 422003.

Saifee Tube & Hardware Mart, 85B, Mohamedali Rd., Bombay 400003.

Win-Arts Industries, 89, Bhajipala St., Bombay 400003.

(Also see " Construction Materials " in this list).

BUILDING MATERIALS

(See "Construction Materials" in this list).

BURNERS—OIL/GAS

Bharat Standard Industries, 6-7, Sharma Ind. Estate, Walbhat Road, Goregaon East, Bombay 400063.

Kaveri Structurals, Sire Mansion, 123, Mount Rd., Madras 600006.

Vulcan Engrs. Pvt. Ltd., Mahalaxmi Chambers, B. Desai Rd., Bombay 400026.

Wesman Thermal Engg. Processes Pvt. Ltd., 1/2, Allenby Rd., Calcutta 700020.

Westerwork Engineers Ltd., 5-D, Vulcan Insce. Bldg., Veer Nariman Rd., Bombay 400020.

BUS-TRUCK BODY BUILDERS

Andhra Pradesh

Hyderabad Allwyn Metal Works Ltd., Sanatnagar, Hyderabad 500018.

Shri Ramdas Motor Transport Pvt. Ltd., Subash Rd., Kakinada 533001.

Bihar

Tata Engg. & Loco. Co. Ltd., Jamshedpur 831001.

Delhi

Anand Automobiles, P. O. Usuf Sarai, New Delhi 110016.

Karnataka

Air Flow Transport (India) Pvt. Ltd., 26/28, St. Marks Rd., Bangalore 560001.

Canara Workshops Ltd., Kodiabail, Mangalore 575001.

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Telephone : 546930.

Maharashtra

India Body Builders, 62, B. Shanker Cross Rd., Bombay 400054.

Jafferbhai & Co., Pheroz Mahal, 1, Rahimulla Rd., Bombay 400003.

Jayanand Khira & Co. Pvt. Ltd., S. Vivekanand Rd., Bombay 400054.

Mahindra & Mahindra Ltd., Gateway Bldg., Apollo Bunder, Bombay 400039.

Premier Automobiles Ltd., L. B. Shastri Marg, Bombay 400070.

Ruby Coach Builders Pvt. Ltd., 75, Dr. A. Besant Rd., Bombay 400018.

Sah & Sanghi, Giri Kunj, 11C, N. S. Patkar Marg, Bombay 400007.

Starline Automobiles, LBS Mrg., Bhandup, Bombay 400078.

Rajasthan

Kamal & Co., Mirza Ismail Rd., Jaipur 302001.

Tamil Nadu

L. G. Balkrishnan & Bros. Pvt. Ltd., P.O. Ganapathy, Coimbatore 641006.

Simpson & Co. Ltd., 202, Mount Rd., Madras 600002.

Sundaram Ind. Pvt. Ltd., Ind. Estate, Madurai 625001.

Uttar Pradesh

Harish Inds., Baghpat Rd., Meerut 250062.

West Bengal

Chopra Motors, 139, Regent Park, Calcutta 700040.

French Motor Car Co. Ltd., 234/3, L. Circular Rd., Calcutta 700020.

CALCULATORS—POCKET SIZE

Bush India Ltd., Calculator Dn., Sukh Sagar, Bombay 400007.

Electronix Systems, 232A, Grand Paradi Apartments, Cumballa Hill, Bombay 400026.

Intronix, 40, Community Centre, Narain Indl. Area, Phase I, New Delhi 110028.

L. P. Electronics, Pvt. Ltd., A-251, Wagle Ind. Estate, Thane 400604.

Microcomp Ltd., 808, Siddharth, Nehru Place, New Delhi 110024.

Vishal Electronics Pvt. Ltd., 46/47, Jerbai Wadia Rd., Parel, Bombay 400012.

CALCULATORS—TABLE SIZE

(Also see Office Equipment).

Aristo Business Systems, 204, Neelam Bldg., Worli Naka, Bombay 400018.

Blue Star Ltd., Band Box House, Prabhadevi, Bombay 400025.

Business Machines Pvt. Ltd., Asnani Mkt., 10A, Rajendra Place, New Delhi 110008.

DCM Data Products, 18, Barakhambha Rd., New Delhi 110001.

DCM Data Products, 313, Thambu Chetty St., Madras 600001.

DCM Data Products, 47, St. Marks Rd., Bangalore 560001.

Devidayal Electronics & Wires Ltd., Post Box No. 5, Bangalore 560049.

India Electronics Corpn., 27, Kotkar Ind. Estate, Goregaon East, Bombay 400063.

Industrial Electronics, 8, Parvati Ind. Estate, Sun Mill Compd., L. Parel, Bombay 400013.

International Marketing Corpn. P. Ltd., Harilela House, Mint Rd., Bombay 400001.

Kerala State Electronics Devpt. Corpn. Ltd., Nirmal, N. Point, Bombay 400021.

Mecotronics Pvt. Ltd., 11A/1, Mount Rd., Madras 600002.

Methodex System Pvt. Ltd., 33-A, New Marine Lines, Bombay 400020.

Modern Trading Co. (Bombay), Opera House, Bombay 400004.

Multiplex Electronics, 69/71, Ghoga St., Bombay 400001.

National Radio & Electronics Co. Ltd., 5, Montieth Rd., Egmore, Madras 600008.

Oblum Electrical Ind. Pvt. Ltd., 6-3-562/A, Erramanzil, Somajiguda, Hyderabad 500004.

Omron India, 74, Regent Chambers, Nariman Point, Bombay 400020.

Remington Rand of India Ltd., Mehta Mahal, Mathew Rd., Bombay 400004.

Stereovision, Heera Mkt., 3/186, Mount Rd., Madras 600002.

Superior Electronic Systems Pvt. Ltd., 129, Champaklal Indl. Est., Bombay 400022.

UMS Radio Factory Pvt. Ltd., Avanashi Rd., Coimbatore 641018.

Weston Electronics (Pvt.) Ltd., 244, Okhla Indl. Est. New Delhi 110020.

CALENDARS

Vinay Calendar Co., 104, A. Dady St., Bombay 400004.

CAMPHOR

Camphor & Allied Products Pvt. Ltd., Jehangir Bldg., 133, M. Gandhi Rd., Bombay 400023.

CAMPING EQUIPMENT

Goyalka Bros., P-4, New Howrah Bridge Approach Rd., Nandram Market, Calcutta 700001.

Soobash & Co., 12, Zakaria St., Calcutta 700001.

CAN SEAMING MACHINES

Atlas Works Ltd., 119, Ripon St., Calcutta 700016.

Metal Box Co. of India Ltd., Chowringhee, Calcutta 700020.

CANDLE-MAKING MACHINES

Jayendra Metal Ind. Ltd., Shastriwada, Opp. College, Sayajigunj, Vadodara 390005.

CAPACITORS—ELECTRICAL & ALUMINIUM ELECTROLYTIC

Andhra Pradesh

Oblum Electrical Industries Pvt. Ltd., 6-3-562/A, Erramanzil, Somajiguda, Hyderabad 500004.

Delhi

Crescent Capacitors, J-12-12, Rajouri Garden, New Delhi 110027.

Usha Electronics (India) P. Ltd., 2, Anand Lok, New Delhi 110045.

Goa

Goa Capacitors Pvt. Ltd., M-1, Block C, Kundaikar Nagar, Altinho Rd., Panaji 403001.

Gujarat

Baroda Electronics Ind. Pvt. Ltd., 78, Chhani Rd., Vadodara 390002.

Yesha Electricals Pvt. Ltd., C-2/18, Ind. Estate, Gorwa Rd., Vadodara 390003.

Karnataka

Electronics & Capacitors, B-56, Indl. Area, Peenya, Bangalore 562140.

Radio & Electrical Manufg. Co. Ltd., Mysore Rd., Bangalore 560026.

Kerala

Elmech Capacitors Ltd., Durbar Hall Rd., Cochin 682016.

Keltron Component Complex Ltd., Post Box 37, Cannanore 670001.

Maharashtra

Ajanta Capacitors Pvt. Ltd., E-41, MIDC Ind. Area, Chikalthana, Aurangabad 431210.

Asian Electronics Ltd., Handloom House, 221, Dr. D. Naoroji Rd., Fort, Bombay 400001.

Capacitor Mfg. Co., A/7, Functional Electronic, MIDC, Bhosari, Pune 411026.

Central Capacitors Pvt. Ltd., 5, Temple Rd., Nagpur 440001.

Emco Esta Capacitors, 94, Medows St., Bombay400023.

Gannon Electrolytics Ltd., Chartered Bank Bldg., M. Gandhi Rd., Bombay 400023.

Hind Condensor Pvt. Ltd., Plot No. 209, Pune-Bombay Road, Pimpri, Pune 411018.

Khatau Junker Ltd., Dattapada Rd., Borivli (E), Bombay 400066.

Madhav Capacitors Pvt. Ltd., Bharat Coal Compd., Bail Bazar, Kurla, Bombay 400070.

Manohar Bros. (Mfg. Dn.), 4, Commerce House, 140, N. Master Rd., Bombay 400023.

Mulchandani Electric & Radio Inds. Ltd., Wagle Indl. Area, Thane 400604.

Tamil Nadu

India Capacitors Ltd., 22, Errabalu Chetty St., Madras 600001.

Manohar Bros., 4, Errabalu Chetty St., Madras 600001.

Southern Capacitors, 393, Mint St., Madras 600001.

Uttar Pradesh

General Electric Co. of India Ltd., Transformer & Capacitor Divn., Naini Works, Naini 211008. (Allahabad Dist.).

West Bengal

Chowdhury Ind. Corpn. Pvt. Ltd., 6, Middleton St., Calcutta 700016.

India Capacitors Ltd., 49/1, Gariahat Rd., Calcutta 700019.

CAPSULES—GELATINE

Associated Capsules Pvt. Ltd., 131, Kandivli Ind. Estate, Bombay 400067.

Capsules Corp. (India), J1/11, Krishna Nagar, New Delhi 110051.

Capsulation Services Pvt. Ltd., Sion Trombay Rd., Chembur, Bombay 400071.

Gelikeps Pvt. Ltd., P.O. Atladara, Vadodara Dist.

Pharmaceutical Capsules Laboratory, Brahman Sabha Bldg., Lamington Cross Rd., Bombay 400004.

Seamless Capsules Pvt. Ltd., 81, Andheri Kurla Rd., Bombay 400059.

CARBON PRODUCTS — CARBON BLOCKS & BRUSHES

A. K. Motiwala, 145, Lohar Chawl, Bombay 400002.

Asia Carbons Ltd., 5, Raman St., Madras 600017.

Assam Carbon Products, Gauhati 781001.

Dikson & Co., 8, Bharat House, Apollo St., Bombay 400023.

El-Mech Works, Udyog Bhavan, 97AB No. 4, Off Prabhadevi Rd., Bombay 400025.

Electro Carbon Mfg. Co., Ind. Estate, Jaisingpur 416101, Kolhapur Dist.

Electro Carbonium Ltd., 78, Victoria Rd., Bangalore 560007.

Gujarat Carbon Ltd., Harikripa, Alkapuri, Vadodara 390005.

Joseph Leslie & Co., Apeejay House, 130, Apollo St., Bombay 400023.

Moba Carbon Pvt. Ltd., 48, Wodehouse Rd., Bombay 400005.

Nagina Carbon Brush Mfg. Co., 280, Carnac Rd., Bombay 400002.

Oriental Carbon Products Co., 6, R. Ghosh Rd., Calcutta 700002.

Philips Carbon Black Ltd., 31, N. Subhas Rd., Calcutta 700001.

Precision Fabricators & Mechanical Engrs., 3, Bora Masjid Galli, Zaveri Bazar, Bombay 400002.

CARBONS—CINEMA ARC

Best & Crompton Engg. Co. Ltd., 13/15, North Beach Rd., Madras 600001.

R. J. Wood Co. Pvt. Ltd., State Bank Bldg., Chandni Chowk, Delhi 110006.

Union Carbide (India) Ltd., 1, Middleton St., Calcutta 700016.

CARDBOARD BOXES

Bangalore

Everest Container Corpn., Ind. Suburbs, Yeshwantpur, Bangalore 560022.

Bombay

Babson Paper Box Factory, 17, Dhobi St., Bombay 400003.

Everest Packaging Corpn., Mahakali Caves Ltd., Andheri East, Bombay 400069.

Hemkiran Packaging Pvt. Ltd., Mathuradas Mill Compd., N. M. Joshi Mrg., Bombay 400013.

Krishna Box Factory, Plot No. 37 (II), MIDC Central Rd., Off Mahakali Rd., Andheri East, Bombay 400093.

National Packaging Inds., 341, Birla Bldg., Tardeo, Bombay 400034.

Calcutta

Ads & Prints (1963), A8, Bon Hooghly Indl. Estate, Calcutta 700035.

Antool, S. & Co. Pvt. Ltd., 91, Acharya P. Chandra Rd., Calcutta 700009.

Arun Corrugating & Packaging Ind., 36, Brabourne Rd., Calcutta 700001.

Associated Packaging Ind., 37, Canning St., Calcutta 700001.

Bengal Paper Tube & Box Manufg. Co., 18, Park St., Calcutta 700016.

Board & Paper Converters, 152/6, Salkia School Rd., Howrah 711101.

British Packaging Ind., 3, Portuguese Church St., Calcutta 700001.

Calcutta Paper Ind., 121, Chittaranjan Ave., Calcutta 700007.

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341, BIRLA BUILDING,
TARDEO, BOMBAY-400034.

Cardboard Box Manufg. Co., 41, Chowringhee Rd., Calcutta 700016.

Cardboard Materials & Printing Co. Pvt. Ltd., 7, Convent Rd., Calcutta 700014.

Cardboard & Paper Products Co., 44, Lockgate Rd., Calcutta 700002.

Central Card Board Box Manufg. Co., 25, Dr. K. Bose St., Calcutta 700009.

Central Trdg. Co., 25, Waterloo St., Calcutta 700001.

Great Bengal Card Board Box Manufg. Co., 46, J. Mitra St., Calcutta 700005.

Impex Corpn., 23/J, R. M. Dutta Garden Lane, Calcutta 700010.

Kajaria Chemipaper Pvt. Ltd., 28, Amratolla St., Calcutta 700001.

Krishna Cardboard Box Manufg. Co., 58, S. Sarkar Rd., Calcutta 700010.

Leonard Card-Board Box Factory Pvt. Ltd., 1/1, Galiff St., Calcutta 700003.

Packaging & Printing Ind., 1, British Indian St., Calcutta 700001.

Profulla Box Manufg. Co. Pvt. Ltd., 80/2, Baitakhana Rd., Calcutta 700009.

Standard Box Co., 6, A. Banerji Lane, Calcutta 700020.

Swastik Box Manufg. Co., 36G, Sitalatala Lane, Narikeldanga, Calcutta 700011.

Technocrafts (India), 56, N. Subhas Rd., Calcutta 700001.

Union Packaging Ind., 1, Transport Depot Rd., Calcutta 700027.

Universal Cardboard Box Factory, 54, Ezra St., Calcutta 700001.

Delhi

Everest Corrugating Ind., 63, Jhandewalan Extn., New Delhi 110055.

Madras

Alex Card Board Pvt. Ltd., 3A/2, Eldams Rd., Madras 600002.

CARPETS

Delhi

Bharat Carpets Pvt. Ltd., 28-B, Connaught Place, New Delhi 110001.

Carpeto Antique, M-45, Greater Kailash-1, New Delhi 110048.

Cosmique International, 191, Faiz Mrg., New Delhi 110005.

East India Carpet Co. Pvt. Ltd., Connaught Place, New Delhi 110001.

Tufted Carpets & Woollen Inds. Ltd., C-92, N. D. S. E. Part II, New Delhi 110049.

Jammu & Kashmir

East India Carpet Co. Pvt. Ltd., Srinagar 190001.

Hadow & Co., C. M., Srinagar 190001.

Oriental Carpet Factory, Shiring Bagh, Srinagar 190001.

Sheikh Co., P.O. Box 83, Srinagar 190001.

Madhya Pradesh

East India Carpet Co. Pvt. Ltd., Maharani Laxmibai Rd., Gwalior 474001.

Maharashtra

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Kim Carpet Ind., Harilela House, Opp. G.P.O., Bombay 400001.

Punjab

Model Woollen & Silk Mills, Grover Estate, Verka, Amritsar 143501.

Oriental Carpet Manufrs. (India) Pvt. Ltd., Amritsar 143001.

Tamil Nadu

Chellarams (Madras), 86, Wallajah Rd., Madras 600002.

Uttar Pradesh

Abbas Wazir Pvt. Ltd., New Bazar, Bhadohi 221401.

Akhtaruzzaman & Bros., Imlaha St., Mirzapur 231001.

Bhadohi Textile Ind. Pvt. Ltd., Bhadohi 221401.

Carpet Co-op. Federation Ltd., Station Rd., Bhadohi 221401.

General Fibre Dealers Pvt. Ltd., Bhadohi 221401.

Hill & Co. Pvt. Ltd., E., Railway Station, Mirzapur 231101.

Jaypee Carpets, Premghan Mrg., Mirzapur 231102.

Kailas Carpet Co., Dholpur House, Agra 282001.

Mahabir Prasad & Co., Main Rd., Bhadohi 221401.

Modi Carpets Ltd., Civil Lines, Modinagar 201204.

Obeetee Pvt. Ltd., Bhariaghat, Mirzapur 231001.

Quality Marked Woollen Carpet Manufacturers Co-op. Assn. Ltd., Gopaldas Rd., Mirzapur 231001.

Samad Carpets Pvt. Ltd., Samad Buildings, Bhadohi 221401.

Shaheen Carpet Inds., Laldiggi, Mirzapur 231002.

Shilpi, Laldiggi, Mirzapur 231002.

West Bengal

Birla Jute Manufg. Co. Ltd., 15, India Exchange Place, Calcutta 700001.

Shroff's Carpets, 12, J. Nehru Rd., Calcutta 700013.

CARS & TRUCKS

Ashok Leyland Ltd., Ennore, Madras 600057. (*Leyland Comet* trucks; *Beaver Hipo & Jumbo* trucks.)

Hindustan Motors Ltd., Uttarpara 712258. (*Ambassador* cars, *Hindustan* trucks.)

Mahindra & Mahindra Ltd., Gateway House, Apollo Bunder, Bombay 400039. (*Jeeps.*)

Premier Automobiles Ltd., Construction House, Ballard Estate, Bombay 400038. (*Premier President* and *Padmini* cars; *Premier Pioneer* & *Premier Roadmaster* trucks.)

Standard Motor Products of India Ltd., 29, Mount Rd., Madras 600002. (*Standard Gazel* cars & *Standard* trucks.)

Tata Engg. & Locomotive Co. Ltd., Bombay House, H. Mody St., Bombay 400023. (*Tata* trucks.)

CASEIN & CASEINATES

D. Doshi & Co., 111, Wadala Udyog Bhavan, Bombay 400031.

CASSETTE TAPE RECORDERS

Asian Radios, Bhagirath Palace, Chandni Chowk, Delhi 110006.

Beltek Electronics Pvt. Ltd., A-30, Narain Indl. Area, Phase I, New Delhi 110028.

Chandra Electronics, Near Opera House P.O., Bombay 400004.

Electronic Inds. of India, 4684, Main Ansari Rd., 21, Daryaganj, New Delhi 110002.

General Electronics of Haryana Pvt. Ltd., 17/6, Main Mathura Rd., Faridabad 121001.

M. I. Electronics, 138, Mount Rd., Madras 600006.

Masterphone Pvt. Ltd., 1423, Chandni Chowk, Delhi 110006.

Paras Electronics Pvt. Ltd., 5, Comm. Centre, Narain Ind. Area, New Delhi 110028.

Priti Electronics Pvt. Ltd., F21, Jangpura Extn., New Delhi 110014.

Radio & Communication Traders, 111-H 10, Lajpatnagar, New Delhi 110024.

Resa Co., B-8, Ind. Estate, Guindy, Madras 600032.

Televista Electronics Pvt. Ltd., 239, Okhla Ind. Estate, New Delhi 110020.

TNK Electronics, 21, Sooterkin St., Calcutta 700072.

Vinay Electronics Corpn., 336, Lajpat Rai Mkt., Delhi 110006.

Wings Electronics, 309, Lajpat Rai Mkt., Delhi 110006.

CASSETTE TAPES

Bel Refrigeration Co., (Electronics Dn.), 4/C, Nungambakkam High Rd., Madras 600034.

Citizen Inds., Post Box 16688, Bombay 400050.

Kamal Inds., 2-F, M. Gandhi Rd., Bangalore 560001.

Kapco International, 603, Deepali, 92, Nehru Place, New Delhi 110024.

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Bassein Ceramics Pvt. Ltd., 324, Cooks Bldg., Dr. D. Naoroji Rd., Bombay 400001.

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Borosil Glass Works Ltd., Marol-Maroshi Rd., Off Military Rd., Bombay 400059.

Central Potteries Works, Bagadganj, Nagpur 440008.

Chemet, 210, Dr. D. N. Rd., Bombay 400023.

Eastern Ceramics Ltd., M. Gandhi Rd., Opp. Mitha Ghar, Goregaon West, Bombay 400062.

Haldyn Glass Works Pvt. Ltd., Off Western Express Highway, Goregaon (East), Bombay 400063.

J. G. Glass Industries, Pimpri, Pune 411018.

Jyoti Ceramic Inds., Plot No. C21, NICE, Satpur, Nasik 422007.

K. M. Ceramics, 102, Bank of Baroda Bldg., Palton Rd., Bombay 400001.

Kashmira Ceramic Products Pvt. Ltd., S. Vivekanand Rd., Mira Village, Bombay 400092.

Mahalaxmi Glass Works Ltd., Haines Rd., Bombay 400011.

Mahavir Refractories Corpn., Maker Bhavan No. 2, New Marine Lines, Bombay 400020.

Minerals Grinding Corpn., 56-D, Clerk Rd., Jacob Circle, Bombay 400011.

Navbharat Potteries Pvt. Ltd., Tokersey Jivraj Wadi Zakaria Bunder Rd., Sewri, Bombay 400015.

Paisa Fund Glass Works, Talegaon Dabhade 410506, Pune Dist.

Precision Ceramics, Post Box 7730, Bombay 400092.

Rescon Manufg. Co. Pvt. Ltd., Moray House, Vivekanand Rd., Bombay 400050.

Orissa

Belpahar Refractories Ltd., P. O. Belpahar 768218.

Orissa Ind. Ltd., Katchery Rd., Rourkela 769001.

Punjab

Himalaya Potteries Ltd., Phillaur 144410. Jullundur Dist.

Snow White Porcelain Enamel Works, Outside Suri Gate, Ferozepur City 152001.

Rajasthan

Bikaner Ceramics Pvt. Ltd., Ind. Area, Bikaner 334001.

Jaipur Glass & Potteries Works Ltd., Tonk Road, Jaipur 302004.

Perfect Pottery Co. Ltd., Bharatpur 321001.

Tamil Nadu

Carborundum Universal Ltd., 11-12, North Beach Rd., Madras 600001.

Dalmia Ceramic Inds., Dalmiapuram, Tiruchirapalli Dist.

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Arco Ceramics, 8/1, G. Datta Garden Rd., Calcutta 700004.

Art Potteries Pvt. Ltd., Majerhat Nimta, 24 Parganas, Calcutta 700049.

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Formalin And Fine Chemicals Ltd., Nacharam Ind. Area, Hyderabad 500039.

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Ingersoll Rand India Pvt. Ltd., May Baker House, S. K. Ahire Marg, Bombay 400025.

K. G. Khosla Compressors Pvt. Ltd., Sambava Chambers, Sir P. M. Rd., Bombay 400001.

Kakati Karshak Inds. Pvt. Ltd., Nacharam Ind. Area, Hyderabad 501507.

Oriental Enterprises, P-46A, CIT Scheme XLV, Radhabazar Lane, Calcutta 700001.

Parkeen Bros., 24, N. Master Rd., Bombay 400023.

Shriram Refrigeration Ind. Ltd., 19, K. Gandhi Mrg., New Delhi 110001.

Shubh Inds., 128, Jai Gopal Industrial Estate, 510, Bhavani Shankar X Rd., Bombay 400028.

SLM-Maneklal Inds. Ltd., Mistry Bhavan, D. Vachha Rd., Bombay 400020.

COMPUTERS

(See under Office Equipment).

CONCRETE MIXERS & VIBRATORS

Ashok Engg. & Construction Co., 14, G. C. Avenue, Calcutta 700013.

C. Comens & Sons Ltd., 103/3, Diamond Harbour Rd., Calcutta 700038.

Flex-Tool Equipment Co., 71/73, Nagdevi St., Bombay 400023.

Freyssinet Prestressed Concrete Co. Ltd., Hamilton House, J. N. Heredia Mrg., B. Estate, Bombay 400038.

International Machines Corpn., 16, Canning St., Calcutta 700001.

Jairamdas & Sons, 7937, Ranigunj, Secunderabad 500003.

Killick Nixon & Co. Ltd., 31, Murzban Rd., Bombay 400001.

Kirloskar Bros. Ltd., Udyog Bhavan, Tilak Rd., Pune 411002.

M. K. Electric Works, 1580, Nai Sarak, Delhi 110006.

Rajen Electric Co., 96/207, D. Phalke Rd., Dadar, Bombay 400014.

Universal Engg. Corpn., E-2/27, Jhandewalan, New Delhi 110055.

Vijay Indl. Products, 5 & 6, Millia Bldg., Narasimharaja Rd., Bangalore 560002.

CONDUITS

Avon Inds., 2/3, Shanthappa Le., Bangalore 560002.

Homlite Inds., Sarai Misra, Jaiganj, Aligarh 202001.

R.S.S.G. Conduits & Tubes Pvt. Ltd., Dahisar, Bombay 400068.

CONNECTORS (RECTANGULAR)

Bombay Burmah Trading Corpn. Ltd., 263, A to Z Ind. Estate, G. Kadam Mrg., Bombay 400013.

Hyderabad Connectronics Ltd., 1-2-412/21, Domalguda, Hyderabad 500029.

Cyclo Electric, Post Box 901, Madras 600020.

Intec Electronics, 2-A, Nungambakkam High Rd., Madras 600034.

CONSTRUCTION MACHINERY

Acme Manufg. Co. Ltd., Antop Hill, Wadala, Bombay 400031.

Acrow India Ltd., Sterling House, 16/2, Dr. A. Besant Rd., Bombay 400018.

Ambica Vijay Works, Ind. Estate, Lalbaugh, Bombay 400012.

C. Bole & Co., 61, N. Dhuru St., Bombay 400003.

Condequip Engrs. & Consultants, Khandelwal House, Marve Rd., Malad West, Bombay 400064.

Empire Dyeing & Manufg. Co. Ltd., Garlick Engg. Div., B. Jagtap Marg, Bombay 400011.

Gammon India Ltd., Gammon House, V. Savarkar Marg, Prabhadevi, Bombay 400025.

Ingersoll Rand India Ltd., 7, Wellesley Place, Calcutta 700001.

International Machines Corpn., 16, Canning St., Calcutta 700001.

Killick Inds. Ltd., Killick House, Home St., Bombay 400001.

Lynx Machinery Ltd., 104, Ultadanga Main Rd., Calcutta 700004.

Millars Machinery Co. Pvt. Ltd., Victoria House, Victoria Rd., Bombay 400027.

Nadirshaw & Bros.. Silver Talkies Bldg., 10, Khetwadi Back Rd., Bombay 400004.

Sayaji Iron & Engg. Co. Pvt. Ltd., Chhani Rd., Vadodara 390002.

Speedcrafts Pvt. Ltd., Layak Enclaves, Sahay Nagar, Patna 801506.

Sujauddin & Co., 75, N. Subhas Rd., Calcutta 700001.

Teknoworks (India), Lal Bahadur Shastri Marg, Bhandup, Bombay 400078.

Vibro Machines (India) Pvt. Ltd., 14, G. C. Ave., Calcutta 700013.

CONSTRUCTION MATERIALS

Ajanta Steel Pvt. Ltd., 48, Cross Rd., Opp. Benares Rd., Belgachi 734423, Howrah Dist.

Anand Iron & Steel Ind., 11/115, Teliwara Shahdara, Delhi 110032.

Bombay Bldg. Materials Trading Co., 73, Medows St., Bombay 400023.

Celcrete, Cellular Concrete Plant, Ennore, Madras 600057.

Gobindo Sheet Metal Works & Foundry, 210, M. Gandhi Rd., Calcutta 700007.

Golden Steel Corpn. Pvt. Ltd., 64, G. Trunk Rd., Liluah 711204.

Gupta Iron & Brass Works Pvt. Ltd., 29, Najafgarh Rd., New Delhi 110015.

Nitco Construction Materials Pvt. Ltd., 26/1-C, Hosur Road, Bangalore 560029.

CONVEYOR BELTS

Andrew Yule & Co. Ltd., Belting Dn., 8, Clive Row, Calcutta 700001.

Conveyor Equipment Co. Pvt. Ltd., 3, Race Course Rd., Guindpi, Madras 600032.

Debdip Rubber Works Pvt. Ltd., 123, Jessore Rd., Calcutta 700055.

Eastern Stores & Trading Co. Pvt. Ltd., 115, Nagdevi St., Bombay 400003.

Hilton Rubbers Pvt. Ltd., Ansal Bhavan, K. Gandhi Mrg., New Delhi 110001.

Karyavahi Conveyor Co.. New Nagardas Rd., Andheri East. Bombay 400069.

Lewis & Tylor Pvt. Ltd., Commerce House, Currimbhoy Rd., Bombay 400038.

Nirlon Synthetic Fibres & Chemicals Ltd., Nirlon House, 254-B, Dr. A. Besant Rd., Bombay 400025.

Oriental Rubber Industries Ltd., L. B. Shastri
Bhandup, Bombay 400078.

R. D. Asher Engg. Division, 10, Homi Mody St.,
400023.

Serampore Belting Works Pvt. Ltd., 36, Strand Rd.,
cutta 700001.

Universal Conveyor Beltings Ltd., Plot 10 & 11, G
Indraprastha Estate, Amarnagar, Faridabad

CONVEYORS

Andhra Pradesh

Aluminium Industries Ltd., Ramachandrapuram, H
bad 500032.

Delhi

Indian Hydraulics Inds., 70, Shivaji Mkt., New De
110015.

Mechanical Movements Pvt. Ltd., 3, N. Subhas
New Delhi 110002.

Vinar Ltd., 2/20, Ansari Rd., Daryaganj, New Del
110002.

Gujarat

Ahmedabad Victoria Iron Works Co. Pvt. Ltd., Dudheshwar Rd., Ahmedabad 380001.

Anup Engg. Ltd., Ghee Kantawadi, Ahmedabad 380001.

Elecon Engg. Co. Ltd., Vallabh Vidyanagar 388120.

Panchal Workshop, Station Rd., Anand 388001.

Rolcon Engg. Co. Ltd., Anand-Sojati Rd., Vallabh Vidyanagar 388120.

Karnataka

Associated Cement Companies, Ltd., Shahabad, Gulbarga 585101.

Systems Mfg. Pvt. Ltd., 1A, Peenya Industrial Area, O
Tumkur Rd., Bangalore 562139.

Maharashtra

BUC Mechanical Equipments Pvt. Ltd., 119, ABC Govt. Ind. Estate, Kandivli, Bombay 400067.

Brady Morris Engg. Co. Ltd., Brady House, V. Nariman Rd., Bombay 400001.

De Smet India Pvt. Ltd., Shree Niketan, A. Besant Rd., Bombay 400018.

Dynacraft Machine Co. Pvt. Ltd., C.D. Barfiwala Marg, Andheri, Bombay 400058.

East India Engg. Works, A-31, Navyug Nivas, Bhadkamkar Marg, Bombay 400007.

Elektromag Methods, 406, Unique Ind. Estate, Off V. Savarkar Mrg., Bombay 400025.

Garlick & Co. Pvt. Ltd., Haines Rd., Bombay 400011.

Jay Kay Steel Fabricators, Universal Founders Compound, Mograpada, Bombay 400069.

K. T. Steel Ind. Pvt. Ltd., 21, Broach St., Bombay 400009.

Konel Corpn., 401-A, Niranjan, 99, Marine Drive, Bombay 400020.

La'Mina Pvt. Ltd., 15, Aghadi Ind. Estate, Marol, Bombay 400059.

Mukund Iron & Steel Works Ltd., Kurla, Bombay

Pioneer Equipment Co. Pvt. Ltd., 139, N. Master
Bombay 400023.

Radiant Electric & Machinery Co., C-12A, C
Centre, Tardeo Rd., Bombay 400034.

Saideep Electricals, D-19, Gandhi Nagar, Bombay

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Systems Engg., 63-D Govt. Ind. Estate, Kandivli, Bombay 400067.

Tak Machinery Ltd., Janmabhoomi Bhavan, Ghoga St., Bombay 400001.

Tata-Robins-Fraser Ltd., 24, Homi Mody St., Bombay 400023.

Testeels Ltd., 317-21, Dr. D. Naoroji Rd., Bombay 400001.

Todi Ind. Pvt. Ltd., Lower Parel, Bombay 400013.

Union Sales Corpn., Bhedwar House, 239, P. D'Mello Rd., Bombay 400001.

Vinar Ltd., 59, Apollo St., Bombay 400023.

Western Mechanical Ind. Pvt. Ltd., Bhandup Village Rd., Bombay 400078.

Wipperdrive Engg., 70, Podar Chambers, 109, Parsi Bazar St., Bombay 400001.

Orissa

Utkal Machinery Ltd., Rourkela 769001.

Tamil Nadu

Conveyor Equipment Co. Pvt. Ltd., Race Course Rd., Guindy, Madras 600032.

Conveyors (India), Ind. Estate, Madras 600058.

Southern Tool Services, 25, Saroja Mansion, MKN Rd., Madras 600032.

Vinar Ltd., 310/311, Linghi Chetty St., Madras 600001.

Uttar Pradesh

Cawnpore Dyeing and Cloth Printing Co. Ltd., Civil Lines, Kanpur 208001.

Modi Ind. Ltd., Modinagar 201201.

West Bengal

Burn and Co. Ltd., Howrah Iron Works, Howrah 711101.

Eastern Belting & Cotton Mills Pvt. Ltd., 20, N. Subhas Rd., Calcutta 700001.

Garden Reach Shipbuilders & Engineers Ltd., Garden Reach Rd., Calcutta 700024.

Gillanders Arbuthnot & Co. Ltd., A-1, Gillander House, N. Subhas Rd., Calcutta 700001.

Jessop & Co., Ltd., 63, N. Subhas Rd., Calcutta 700001.

Lynx Machinery Ltd., 104, Ultadanga Main Rd., Calcutta 700004.

Marshall Sons & Co. (India) Ltd., 75-C, Park St., Calcutta 700016.

Mechanical Handling Equipment Pvt. Ltd., 33, Chittaranjan Ave., Calcutta 700012.

New India Conveyor Co., 4, Chandni Chowk St., Calcutta 700013.

Parry & Co., Mercantile Bldg., Lall Bazar, Calcutta 700001.

Serampore Belting Works Pvt. Ltd., 36, Strand Rd., Calcutta 700001.

Vinar Ltd., 5A, Lord Sinha Rd., Calcutta 700016.

COOLING TOWERS

Cooling Tower Corpn., 40B, GIDC, Makarpura, Vadodara 390010.

Jafkay Engg. Industries Pvt. Ltd., A-21, MIDC Ind. Area, Andheri East, Bombay 400093.

Paharpur Cooling Towers Pvt. Ltd., 1-B, Judges Court Rd., Calcutta 700027.

Rameshchandra & Co., 158, Reay Rd., Bombay 400010.

Thermopack Engrs. Pvt. Ltd., 21, Steelmade Ind. Est., Marol Maroshi Rd., Bombay 400059.

COPPER WIRES & TUBES

Bothra Metal & Wire Inds., Opp. Premier Automobiles, Kurla, Bombay 400070.

Deepak Wire Inds., 25, Rambaug, Ratlam 457001.

Devidayal Electronics & Wires Ltd., Gupta Mills Estate, Reay Rd., Bombay 400010.

Indo-American Electricals Ltd., 21, Old Court House St., Calcutta 700001.

Jayant Metal Mfg. Co. Pvt. Ltd., 16, Sayani Rd., Bombay 400025.

Matchless Wire Products, 1/19, T. R. Mudali St., Kondithope, Madras 600001.

Sai Inds., Plot 7, Phase II, MIDC Ind. Area, Andheri East, Bombay 400093.

Samarath Electricals, 5/7, Picket Cross Rd., Bombay 400002.

Shantilal Hiralal & Co., 57-B, Nanubhai Desai Rd. Bombay 400004.

Steel Appliances Mfg. Co., 97-D, Govt. Ind. Estate Kandivli, Bombay 400067.

Vishwakarma Casting Works, 175, Kika St., Bombay 400004.

CORK PRODUCTS

Bharat Crown & Metal Ind., Behind India United Mills No. 5, Chinchpokli X Lane No. 2, Bombay 400027.

Cork Industries, P.B. No. 2631, Madras 600032.

Indian Cork Mills Pvt. Ltd., Saki-Vihar Rd., Powai, Bombay 400072.

New Cork Products, 84, S. Bhagat Singh Rd., Bombay 400023.

CORRUGATED BOX MAKING MACHINE

Micro Mechanical Works, L.B.S. Mrg., Vikhroli, Bombay 400083.

Nagpal Inds., 1062, Bartan Mkt., Sadar Bazar, Delhi 110006.

CORRUGATED BOXES

Andhra Pradesh

A. K. Packaging & General Works, 1-7-69, Sarojini Devi Rd., Secunderabad 500003.

Cartons India, D-14, IDA, Jeedimetle, Hyderabad 500854.

Hyderabad Packaging Pvt. Ltd., Ind. Estate, Moula Ali, Hyderabad 500040.

Masanto Containers Pvt. Ltd., 2-3-37, Amberpet, Hyderabad 500013.

Progressive Packaging Pvt. Ltd., B-42, Ind. Estate, Sanatnagar, Hyderabad 500018.

Shree Packaging Corpn., 2-3-720, Amberpet, Hyderabad 500013.

Sri Saibaba Packaging Ind., 6-3-905, Raj Bhavan Rd., Somaji Guda, Hyderabad 500004.

T. R. Enterprises Pvt. Ltd., 16-10-1, Malakpet, Hyderabad 500024.

Vistas Corrugated Box Factory, 103, S. Patel Rd., Secunderabad 500003.

Delhi

Ajanta Offset & Packing Pvt. Ltd., B-95, Indl. Area, Wazirpur, New Delhi 110052.

Anil Packaging Ind., 4539, Pahari Dhiraj, Delhi 110006.

Capital Corrugating Ind., 15, Najafgarh Rd., New Delhi 110015.

Delhi Corrugated Paper Co., Gali Bahuju, Pahari Dhiraj, Delhi 110006.

Delhi Packaging Pvt. Ltd., 1E/9, Jhandewalan Extn., New Delhi 110055.
Delhi Pulp Ind., Ansal Bhavan, Curzon Rd., New Delhi 110001.
Everest Corrugating Ind., 3-E/6, Jhandewalan Extn., Link Rd., New Delhi 110055.
Ganesh Packaging Ind., C-514, Defence Colony, New Delhi 110003.
Hindustan Papers, 7/33, Daryaganj, New Delhi 110002.
Jaaj Corrugating Co., 6-A, Connaught Place, New Delhi 110001.
Lakshmi Corrugated Board & Box Inds., 18, DLF Ind. Area, Najafgarh Rd., New Delhi 110015.
Packers Products, 10/58, Indl. Area, Kirtinagar, New Delhi 110015.
Paper Products Ltd., 1/25, Asaf Ali Rd., New Delhi 110002.
Rajdhani Paper & Board Ind., Gali Bahuji, Pahari Dhiraj, Delhi 110006.

Gujarat

Baroda Box Manufg. Co., Indira Nivas, Dandia Bazar, Vadodara 390001.
Baroda Packaging, Pvt. Ltd., National Highway No. 3, Chhani, Vadodara Dist.
Creative Corrugating Inds., Ind. Area, Gorwa, Vadodara 390003.
Gujarat Paper Ind., Maneja 391710. Vadodara Dist.
Jayant Paper Mills, Container Division, Utran 394105. Surat Dist.
Paco Ind., R. C. Patel Ind. Estate, Akota Rd., Vadodara 390005.
Pick & Pack, 89, G. V. M., Audyojik Vasahat, Odhav Rd., Ahmedabad 380002.
Saurashtra Packaging Pvt. Ltd., Pattani Bldg., M. G. Rd., Rajkot 360001.
Vakal Traders, Ind. Estate, Vadodara 390003.
Yogi Packaging Ind., 18, Pratap Gunj, Vadodara 390002.

Karnataka

Everest Container Corpn., 'Everest House', 89, Ind. Suburb, Yeshvantpur, Bangalore 560022.
India Packaging Products Pvt. Ltd., 5th Mile, Bellary Rd., Bangalore 560024.
Intact Box Mfg. Co., 35, Ind. Suburb, Yeshwantpur, Bangalore 560022.
Qualipack, 15, Lalbagh Rd., Bangalore 560027.

Maharashtra

Aryan Packing Service, Globe Mill Passage Cross Lane, Behind Century Mill, Bombay 400013.
Ashok Paper Box Manufg. Co., 38J, Kapreshwar Marg, S. Podar Rd., Bombay 400002.
Atul Packers, 244, Bellasis Rd., Bombay 400008.
Babsons Paper Box Factory, 17, Dhobi St., Bombay 400003.
Bharat Corrugating Industries, Dalmia Estate, Mulund, Bombay 400080.
Bliss Pack, 25-Interlink Ind. Estate, Caves Rd., Jogeshwari (East), Bombay 400060.
Bombay Packaging Ind.. Steelmade Ind. Estate, Marol Maroshi Rd., Marol, Andheri East, Bombay 400059.
Boxpack Paper Ind. Pvt. Ltd., 81, Bhagat Singh Rd., Bombay 400001.
Boxwell (India) Pvt. Ltd., Box House, 54, Kurla-Andheri Rd., Bombay 400070.
Boxwell Inds., C-1, Ind. Estate, Jalna 431203.
Carton Krafts, T.K. Ind. Estate, King Edward X Lane, Sewri, Bombay 400015.
Elphinstone Paper Box Mfg. Co., 510, Off Ram Mandir Rd., Goregaon (W), Bombay 400062.
Eskay Paper Products, 71, Nahur, Opp. Hoechst Pharmaceuticals, LBS Mrg., Mulund West, Bombay 400080.
Ever Best Paper Embossing Works, Moti Baugh, Sion-Trombay Rd., Chembur, Bombay 400071.
Everest Packaging Corpn., 25, Mahal Ind. Estate, Mahakali Rd., Andheri (East), Bombay 400093.
Habib Paper Box Factory, Ismail Bldg., Bhendi Bazar, Ibrahim Rahimtulla Rd., Bombay 400003.
Hind Paper Box Manufg. Co., Ishwar Bhawan, A. Rd., Churchgate, Bombay 400020.
Hindustan Packing Ind., Kurla-Andheri Rd., Near Saphed Bridge, Bombay 400072.
India Corrugating Ind. Pvt. Ltd., 37-A, Parel Cross Lane, Chinchpokli, Bombay 400012.
IPCO Packaging Pvt. Ltd., Elphinstone Mills (Leather Div.) Comp., Delisle Rd., Bombay 400013.
Jayant Paper Box Factory, 205, Kakad Chambers, 132, Dr. A. Besant Rd., Worli, Bombay 400018.
John's Pack, 9/6, Udyognagar Ind. Estate, S. Vivekanand Rd., Goregaon (West), Bombay 400062.
Kohinoor Paper Box Factory, Mogra West, Andheri East, Bombay 400069.
Krishna Box Factory, 37(II) MIDC, Central Rd., Andheri (E), Bombay 400093.
Master Packaging Service, Minerva Movietone Comp., Bunder Rd., Sewri, Bombay 400015.
Mehta Paper Ind., 61, Govt. Ind. Estate, Kandivli West, Bombay 400067.
National Corrugating & Allied Inds., 17/18, Shah Ind. Estate, Deonar, Bombay 400088.
National Packaging Industries, 341, Birla Bldg., Tardeo, Bombay 400034.
National Paper Box Factory, Haji Manzil, 82-86, A. Rehman St., Bombay 400003.
New Modern Traders, A-18, M.I.D.C. Estate, J.B. Nagar, Andheri (East), Bombay 400093.
New Standard Box Factory, Shivam Indl. Estate. Govandi Rd., Bombay 400088.
Packfine Corrugating Ind., 7, Sadhana Ind. Estate, Oshiwara, Jogeshwari, Bombay 400060.
Packraft Ind., Sainath Ind. Estate, Shed No. 'D', Off Kotkar Rd., Goregaon East, Bombay 400063.
Packwel Service, 15, Sainath Ind. Estate No. 2, Near Kotkar Enamel Works, Goregaon East, Bombay 400063.
Pac-Wel Ind., 3-B, Gilder Lane, Bombay 400008.
Pakrite, 27, 10th Kamathipura, Bombay 400008.
Panchshil Packaging Ind., Hanuman Silk Mills Comp., Bhandup, Bombay 400078.
Paper Box Co. of India, Mahakali Caves Rd., Bombay 400093.
Paper Corrugation & Packaging Pvt. Ltd., 74-B, Govt. Ind. Estate, Kandivli (West), Bombay 400067.
Paradise Paper Products, Mahendra Ind. Estate, Rd. No. 29, Plot No. 109-D, Sion (East), Bombay 400022.
Perfect Packagings, Subhas Nagar, Off Caves Rd., Jogeshwari (East), Bombay 400060.
Poly-Cone Paper Pvt. Ltd., 213, Udyog Mandir, 7/C, Pitamber Lane, Mahim, Bombay 400016.

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341, BIRLA BUILDING,
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Pramod Paper Box Ind., Darshan Udyog Bhavan, M. Vasanji Rd., Bombay 400072.

SB Cardocrafts, 15, Bombay Talkies Comp., Malad (West), Bombay 400064.

Saurashtra Packaging Service, 606, Churchgate Chambers, 5, New Marine Lines, Bombay 400020.

Saurashtra Paper Box Manufrs., 113, J. Maharaj Lane, 3rd Bhoiwada, Bombay 400002.

Shantilal & Co., 99, Banian St., Bombay 400002.

Standard Box Ind., Shreeniwas House, Waudby Rd., Bombay 400001.

Subandhu Corrugating Ind., 123, Shayda Marg (Dongri St.), Bombay 400009.

Swastik Paper Ind., Sewri Cross Rd., Bombay 400015.

United Paper Ind., 9/3, Udyognagar Ind. Estate, 8 Vivekanand Rd., Goregaon (West), Bombay 400062.

Punjab

Leader Paper Processing Pvt. Ltd., E-11, Indl. Town Jullundur 144001.

Tamil Nadu

Chettiar Ind. Corpn., G-4, Vyasarpadi Co-op. Ind Estate, Madras 600039.

Jayant Packaging Pvt. Ltd., Super 'A' 12 & 13, Ind. Estate, Guindy, Madras 600032.

Madras Paper Convertors & Ind., 3, T. Chetty St., Madras 600001.

Mount Packaging Corpn., 1/12, Vyasarpadi Co-op. Ind. Estate, Madras 600039.

Packwell Ind. Pvt. Ltd., No. 37, Old Trunk Rd., Pallavaram, Madras 600043.

Pee Bee Packaging, 2, Panchaliammankoil St., Arumbakkam, Madras 600029.

Siva Packaging Ind., B-1, Ind. Estate, Ambattur, Madras 600058.

West Bengal

Arun Corrugating & Packaging Inds., 36, Brabourne Rd., Calcutta 700001.

Associated Packaging Ind., 37, B.R.B.B. Rd., Calcutta 700001.

B. Ghosh & Co., Pvt. Ltd., 29, Mission Row Extn., Calcutta 700013.

Bengal Box Manufg. Co., 4, R. K. Chatterjee Rd., Cossipore, Calcutta 700002.

Bharat Paper Products, 352, R. Bahadur Rd., Calcutta 700053.

British Packaging Ind., 3, Portuguese Church St., Calcutta 700001.

Calcutta Paper Ind., 'Punam', 5/2, Russel St., Calcutta 700071.

Card Board Box Manufg. Co., 41, Chowringhee Rd., Calcutta 700016.

Card Board Printing & Processing Ind. Ltd., Alam Bazar, Calcutta 700035.

Card Board Products, 7A, Lower Circular Rd., Calcutta 700017.

Central Card Board Box Manufg. Co., 25, Dr. K. Bose St., Calcutta 700009.

Corrugating & Paper Processing Co. Pvt. Ltd., 25A, Swallow Lane, Calcutta 700001.

Durga Paper Products, 8/1/1, G. Dutta Garden Lane, Calcutta 700004.

Eastern India Box Factory, 1, Chitpore Ghat Lane, Cossipore, Calcutta 700002.

Impex Corpn., 23J, R. M. Dutta Garden Lane, Calcutta 700010.

Kajaria Chemi-Paper Pvt. Ltd., 28, Amratolla St., Calcutta 700001.

National Paper Processing Co., 23/32, Chanditala Main Rd., Calcutta 700053.

Sunrise Packaging Co., 196/C, Chittaranjan Ave., Calcutta 700007.

Union Packaging Industries, 1, Transport Depot Rd., Calcutta 700027.

United Paper Products, 35A, Muraripukara Rd., Calcutta 700004.

CORRUGATED SHEETS

Taida Trading & Inds., Pvt. Ltd., 175, Vidyanagri Mrg., Kalina, Bombay 400029.

COSMETICS

Bengal Chemicals & Pharmaceutical Works, 6, Ganesh Chandra Avenue, Calcutta 700013.

Burroughs Welcome & Co. (India) Pvt. Ltd., 16, Bank St., Bombay 400023.

Ciba of India Ltd., 14, J. Tata Rd., Bombay 400020

Colgate Palmolive (India) Ltd., Steelcrete House, D. Vachha Rd., Bombay 400020.

E. S. Patanwala, Patanwala Bldg., Connaught Rd., Bombay 400027.

Geoffery Manners & Co. Ltd., Magnet House, Dougall Rd., B. Estate, Bombay 400038.

Glaxo Laboratories (India) Ltd., Dr. A. Besant Rd., Worli, Bombay 400018.

Johnson and Johnson Ltd., 30, Forjett St., Bombay 400026.
Lakme Ltd., Bombay House, Homi Mody St., Bombay 400023.
Pond's (India) Ltd., 26, Commander-in-Chief Rd., Madras 600008.
Swastik Oil Mills, 13, W. Hirachand Marg, Bombay 400038.
T. S. R. & Co., Ramapuram, Madras 600089.

COUPLINGS (FLEXIBLES)

Ashton Green & Co., Sir Vithaldas Chambers, Apollo St., Bombay 400023.
ESBI Inds., 23-A, Netaji Subhas Rd., Calcutta 700001.
Mark-AEC Inds. Pvt. Ltd., 71, Ganesh Ch. Ave., Calcutta 700013.
Mark Elektriks, Plot No. 15, Gultekdi Ind. Estate, Pune 411009.
New Allenbury Works, 52, Hazra Rd., Calcutta 700019.
P. Ratilal & Co., 43, Dhanji St., Bombay 400003.
Rathi Engg. Works, 27, Shankerset Rd., Pune 411009.
Standard Materials Agencies, Podar Chambers, Parsi Bazar St., Bombay 400001.
Wellman Incandescent India Ltd., 8, Ho Chi Minh Sarani, Calcutta 700018.

CRANES & CRANE COMPONENTS

Dehati Engg. Works, 15, Najafgarh Rd., New Delhi 110015.
Jessop & Co. Ltd., 63, N. Subhas Rd., Calcutta 700001.
Marshall, Sons & Co. India Ltd., 75-C, Park St., Calcutta 700016.
Mechanical Machinery Makers Pvt. Ltd., 67, Ekdalia Rd., Calcutta 700019.
Shirke Construction Equipments Pvt. Ltd., 72-76, Mundhwa, Pune 411036.
Utkal Machinery Ltd., Kansbahal 770034, Sundargarh Dist. (Orissa).
Western Mechanical Ind. Pvt. Ltd., Industry Manor, Near Century Bazar, Bombay 400025.
WMI Cranes Ltd., Bhandup Village Rd., Bhandup, Bombay 400078.

CRASH HELMETS

Allibhai Premji Tyrewala, Near Apsara Cinema, Bombay 400007.
Cama Motors Ltd., Lal Darwaja, Ahmedabad 380001.
Concord Arai Pvt. Ltd., 26, J. Nehru Rd., Calcutta 700013.
Everlast Fibre Glass Products Pvt. Ltd., 5, Residency Rd., Bangalore 560025.
Mazdas India, 33, Church St., Bangalore 560001.
Pran Uppal, C/o Verma Scooter House, Shop No. 15, Bldg. No. 3, Navjivan Co-op. Housing Socy., Bombay 400008.
Technoplast International, 14, Old Madras Rd., Ulsoor, Bangalore 560008.
Udyogi Bros., 82, J. Bajaj St., Calcutta 700007.
Unique Enterprises, Hebbal, Bangalore 560006.
Unique Enterprises, 1, Atladara Ind. Estate, Atladara, Vadodara 390003.

CROCKERIES — CERAMIC & PORCELAIN

Andhra Pradesh

Deccan Porcelain & Enamel Works Ltd., Bakaram, Hyderabad 500001.
Hyderabad Potteries Ltd., 365-A, Bakaram, Hyderabad 500001.

Bihar

Reliance Firebricks & Potteries Co. Ltd., P.O. Chanch Pottery, Dhanbad Dist.

Delhi

Bawa Potteries, Mehrauli, New Delhi 110030.
Kashmir Ceramics Ltd., Jeevan Vihar, Parliament St., New Delhi 110001.
Paulsons Ceramic Potteries, WZ 440, Palam Enclave, Delhi 110010.
Punjab Potteries, Gurgaon Rd., New Delhi 110037.
Scindia Potteries Pvt. Ltd., 289/3, Sirojini Nagar, N. Delhi 110023.

Gujarat

Digvijay Tiles & Potteries Ltd., Jamnagar 361001.
Khodiyar Pottery Works Ltd., Opp. Rly. Stn., Sihor 364340.

Haryana

Hitkari Potteries Pvt. Ltd., 63, Ind. Area, Faridabad 121001.

Karnataka

Government Porcelain Factory, Malleswaram, Bangalore 560005.

Kerala

Government Ceramic Factory, Quilon 691001.
Kerala Ceramics Ltd., Kundara 691501. Quilon Dist.

Madhya Pradesh

Gwalior Potteries Ltd., Gwalior 474001.
Perfect Pottery Co. Ltd., Gwarighat Rd., Jabalpur 482001.

Punjab

Himalaya Potteries Ltd., Phillaur 144410.
Hindustan Twyfords Ltd., Bahadurgarh 147021.

Rajasthan

Shivraj Pottery Works, Opp. A.I.R., Jaipur 302001.
(See also under 'Ceramics & Potteries' in this list).

CRUCIBLES

Andhra Graphite Products Pvt. Ltd., Visakhapatnam 530007.
Calcutta Crucible Manufg. Works, 52, Khetra Mitra Lane, Salkia, Howrah 711106.
Gopalkrishna Crucible Works, Thadithota, Rajahmundry 533103.
Hind Crucible Co., Maniktala Rd., Calcutta 700054.
Jayanthi Inds., Rajahmundry 533103.
Khandelwal Crucibles & Mineral Industries, Rajahmundry 533101.
Leos Mercantile Corpn., 441, Lamington Rd., Bombay 400004.
Prakash Bros., Telianwala, Rajghat, Varanasi 221001.
Shankar & Co., 200, Chawri Bazar, Delhi 110006.
United Crucible Indl. Corpn., Rajahmundry 533103.
V. Jarton & Co., 71, N. Subhas Rd., Calcutta 700001.

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Bhawani Traders, 217, Princess St., Bombay 400002.
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New Lahore Engg. Co., Munshi Niketan, A. Ali Rd., New Delhi 110002.
Purushottam Traders Pvt. Ltd., A-6, Co-op. Ind. Estate, Balanagar, Hyderabad 500037.
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Dr. Gajra's Monochem Inds., 280, V. Savarkar Mrg., Bombay 400028.
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Sree Meenakshi Chemical Inds., Sree Meenakshi Gardens, Kizhakattalai, Madras 600043.
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Trading Engineers (International) Pvt. Ltd., C-42, Wazirpur Ind. Area, Delhi 110052.

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Cyma Industries, Jelly Estate, Mavdi Plot, Rajkot 360004.
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Premier Automobiles Ltd., L. B. Shastri Mrg., Bombay 400070.

Rathi Engg. Works, Near Chitnis Park, Nagpur 440002.

Ruston & Hornsby (I) Ltd., Chinchwad, Pune 411019.

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Marshall, Sons & Co. (Mfg.) Ltd., 33/34, Ambattur Ind. Estate, Madras 600058.

Simpson & Co., Ltd., 202, Mount Rd., Madras 600001.

Uttar Pradesh

Prabhat Engrs., Belanganj, Agra 252004.

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Universal Engineers & Traders, 20, N. Subhas Rd., Calcutta 700001.

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Hindustan Polymers Ltd., Pendurthi Rd., Visakhapatnam 530001.

K. C. P. Ltd., (Distillery), Vuyyuru 521165. Krishna Dist.

Sri Sarvaraya Sugars Ltd., Chelluru 533261. East Godavari Dist.

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Arlem Breweries Ltd., Mormugao Harbour 403803.

Gujarat

Alembic Chemical Works Co. Ltd., Ind. Area, Vado 390003.

Sardesai Brothers Ltd., P.O. Sardesai Factory Valsad Dist.

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Haryana Distillery, Yamunanagar 135001.

Karnal Distillery Co. Ltd., Karnal 132001.

Panipat Co-operative Distillery, Panipat 132103.

Himachal Pradesh

Mohan Meakin Breweries Ltd., Solan 173212.

Solan Breweries, Solan 173212.

Karnataka

Amrut Distilleries, Sampangi Tank Rd., Bangalore 56

Khoday Distilleries Pvt. Ltd., 10, 1st Main Rd., C nagar, Bangalore 560009.

Mysore Breweries Ltd., Jalahalli Camp Rd., 560022.

Mysore Sugar Co. Ltd., Mandya 571401.

United Breweries Ltd., Grant Rd., Bangalore 560001.

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Premier Breweries Ltd., Kanjikode West 678623 (Pal Dist.).

Travancore Sugars & Chemicals Ltd., Pamba Distillery, Tiruvalla 689101.

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Associated Breweries & Distilleries, Jyoti Studio pound, Nana Chowk, Bombay 400007.

Kolhapur Sugar Mills Ltd., Kasba Bavada, K 416006.

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Punjab Breweries Ltd., Post Box 167, Ludhiana 1

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Udaipur Distillery Co. Pvt. Ltd., Udaisagar Rd., U 313001.

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Sakthi Sugar Ltd., 72, Sengupta St., P.B. 900, Ra Coimbatore 641001.

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Central Distillery & Chem. Works Ltd., Meerut Ca 250001.

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Mohan Meakin Breweries Ltd., Mohannagar, Ghaziabad 201007.
Mohan Meakin Breweries Ltd., Lucknow Distillery, Dallygunge, Lucknow 226001.
Rampur Distillery & Chem. Co. Ltd., Rampur 244901.
Standard Refinery & Distillery Ltd., Unnao 209801.

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Carew & Co. Ltd., 6, Old Court House St., Calcutta 700001.
Bengal Distilleries Co. Pvt. Ltd., 4/5, Bankshall St., Calcutta 700001.
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Shaw Wallace & Co. Ltd., 4/5, Bankshall St., Calcutta, 700001.

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Star Marketing & Services Ltd., Dhanraj Mahal, C. S. M. Mrg., Bombay 400039.
Vummidiars, 162, Mount Rd., Madras 600002.
Western India Electricals Corpn., 23, Ansari Rd., Daryaganj, New Delhi 110002.

DOORS — FLUSH

Amar Inds., Acme Indl. Estate, Sewree (E), Bombay 400015.
Central India Board Products, Pathrota Rd., Itarsi 461111.
Deluxe Flush Doors Corpn., 38, Bombay Timber Mkt., Reay Rd., Bombay 400010.
Indian Plywood Mfg. Co. Ltd., 9, Wallace St., Bombay 400001.
Kutty Flush Doors & Furniture Co. Pvt. Ltd., Poonamale High Rd., Koyambedu, Madras 602102.
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Mysore Commercial Union Ltd., Yeshwantpur, Bangalore 560022.
Nagaland Forest Products Ltd., Tijit. Mon. Dist. 798621. (Nagaland).
Nuboard Manufg. Co. Ltd., Shahbad Rd., Rampur 244901.
Phoenix Plywood Pvt. Ltd., P. Bag 278, Kottayam 686001. Kerala State.
Plyboards (India), Dibrugarh 786001.
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Sarda Plywood Inds., 9, Parsee Church St., Calcutta 700001.

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New Bharat Engg. Works (Jamnagar) Ltd., Post Box No. 131, Jamnagar 361002.
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Everest Pharmaceutical Works, F-34, N.D.S.E., Part 1, New Delhi 110049.
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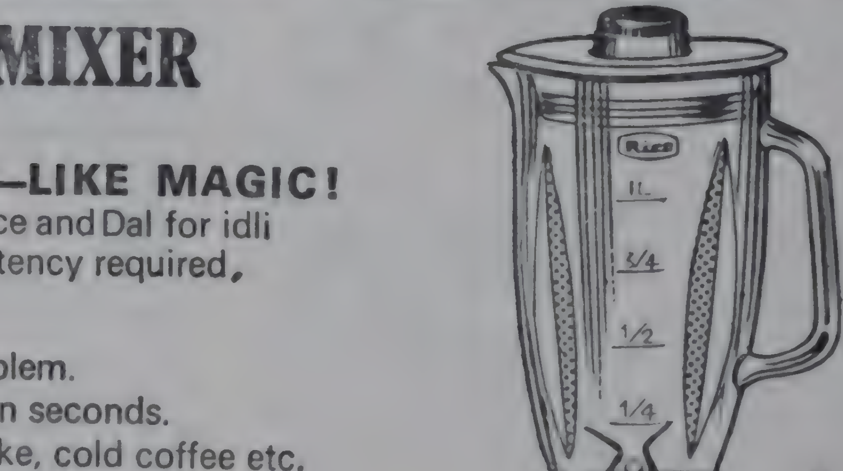

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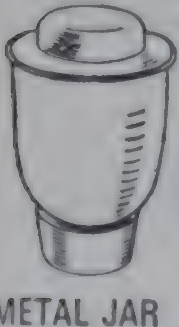

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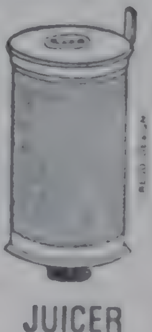

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Alembic Chemical Works Co. Ltd., Alembic Rd., Vadodara 390003.

Allied Pharmaceutical Laboratories, Ranmukteswar Mahadev Rd., Ind. Area, Pratapnagar, Vadodara 390004.

B.Tex Ointment Manufg. Co., 20/21-D, Udyog Nagar, Navsari 396445.

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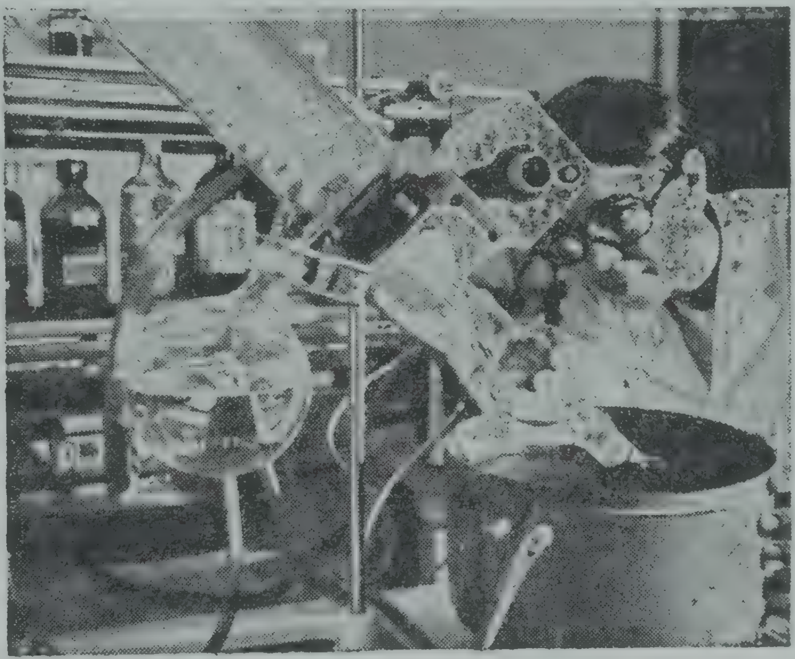

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Spencer & Co. Ltd., Spencer's House, Forjett Rd., Bombay 400036.
Standard Chemical & Pharmaceutical Co., Atlas Mills Comp., Reay Rd., Bombay 400010.
Stap Pharmaceuticals, 22, Nand-Deep Ind. Estate, Andheri-Kurla Rd., Kondivita Lane, Bombay 400069.
Sunways (I) Pvt. Ltd., Jaiprakash Rd. No. 2, Goregaon (E), Bombay 400063.
Suren Chemicals, Amin Ind. Estate, Sonawala Cross Lane, Goregaon, Bombay 400063.
T. M. Thakore & Co., Readymoney Mansion, 43, Churchgate St., Bombay 400001.
T. Walker's Pharmaceuticals Labs., 92/10, Navi Peth, Pune 411030.
Tata Fison Ind. Ltd. (Pharma Division), Ralli House, 21, Raveline St., Bombay 400001.
Technichem Laboratories, 8, Bhavana, 422, Cadell Rd., Bombay 400025.
Themis Pharmaceuticals, 38, Suren Rd., Andheri, Bombay 400069.
Thera Chem Laboratories, Prem Bhavan, J. Dadajee Rd., Bombay 400007.
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Therapeutic Pharmaceuticals, Kakad Chambers, Dr. A. Besant Rd., Bombay 400018.
Thomas Pharmaceuticals, 23, Hamam St., Bombay 400001.
Triumph Products, K. S. A. Bldg., B. Shankar Rd., Dadar, Bombay 400028.
Unichem Laboratories Ltd., 4, 5 & 6, Jogeshwari Estate, S.V. Rd., Jogeshwari (West), Bombay 400060.
Unique Pharmaceutical Laboratories, 83-B & C, Dr. A. Besant Rd., Bombay 400018.
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Vaps Laboratories, 20, Tilak Mrg., Bombay 400003.
Varma Pharmacy Pvt. Ltd., 59, Ind. Estate, Hadapsar, Pune 411013.
Vaska Laboratories, 618, Shivaji Nagar, Ratnagiri 415612.
Vicco Laboratories, Jayendra Mahal, Ambedkar Rd. Bombay 400014.
Vir Pharmaceuticals, Ramdas Bhuvan, Shivaji Park Rd. No. 3, Bombay 400028.
Vitachem Pharmaceuticals, Wassaimul Bldg., M. Shaukatali Rd., Bombay 400007.
Walter Bushnell Pvt. Ltd., Steelcrete House, D. Vachha Rd., Bombay 400020.
Wander Ltd., Shivsagar 'A', Dr. A. Besant Rd., Worli, Bombay 400018.
Warren Pharmaceuticals Pvt. Ltd., 78-B, Govt. Ind. Estate, Kandivli, Bombay 400067.
West Coast Pharmaceuticals Pvt. Ltd., West Coast House, Nr. Shiroli Octroi Naka, Kolhapur 416001.
Western India Pharmaceutical Co., 1-B, Rajdeep, 63-E, Linking Rd., Santa Cruz West, Bombay 400054.
Wockhardt Pharmaceuticals, 216-A, Dr. A. Besant Rd., Bombay 400025.
Wyeth Lab. Ltd., Steelcrete House, D. Wachha Rd., Bombay 400020.
Zandu Pharmaceutical Works Ltd., Gokhale Rd. South, Bombay 400028.
Zenith Chemical Works Pvt. Ltd., 4, French Bridge, Bombay 400007.
Zone Chemical Co., 88-C, New Prabhadevi Rd., Nagu Sayachi Wadi, Bombay 400025.

Pondicherry

Ananda Pharmaceuticals, 78, Amalathadai Noda St., Pondicherry 605001.

Punjab

Franklin Laboratories (I) Pvt. Ltd., Maharani Jhansi Rd., Ludhiana 141001.
Healone Laboratories, Medicine Manufg. Corpn. Ind. Society Ltd., College Rd., Mansa 151505.
Medico Pharmaceutical Processors, P. Box 109, Amritsar 143001.
Mehta Pharmaceuticals Pvt. Ltd., G.T. Rd., Chheharta 143105.
Swatantra Asian Chemical Pvt. Ltd., Railway Rd., Gurgaon 122001.
Unimax Laboratories, Jandiala Guru, Amritsar 143001.

Rajasthan

Archem Labs., H-50, Jakhareshwar Marg, M. S. Circle, Bani Park, Jaipur 302006.
Delux Pharma, Municipal Godown Rd., Abu Rd. 307026.
Jaipur Pharmaceutical Works, 2, S. P. Ind. Estate, Jaipur South 302001.

Tamil Nadu

Amrutanjan Ltd., 14/15, Luz Church Rd., Madras 600004.
Bahola Parmaceuticals Co., Homoeo House, Bakthapuri, Kumbakonam 612001.
Dadha Pharma Pvt. Ltd., 151, Lloyds Rd., Madras 600014.
Indo-French Pharmaceutical Co., Catholic Centre, Madras 600001.
Medo Pharma, Mohan Mansion, 38-C, Mount Rd., Madras 600006.
Micro Labs Pvt. Ltd., 17, Kilpauk Garden Rd., Madras 600010.
Mount Mettur Pharmaceuticals Pvt. Ltd., No. 7, Thanga Pattai, Tiruvanmiyur, Madras 600041.
Orient Pharma Pvt. Ltd., Old Trunk Rd., Pallavaram, Madras 600043.

Retort Laboratories, Milk Colony Rd., Madhavaram, Madras 600060.

Spencer & Co. Ltd., 153, Mount Rd., Madras 600002.

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Tamil Nadu Dadha Pharmaceuticals Ltd., Dadanagar, Madras 600074.

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Uttar Pradesh

Anandakar Karyalaya Pvt. Ltd., Khatrana Tola, Etawah 206001.

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Chemidoc Enterprises Pvt. Ltd., 170/1, Noorullah Rd., Allahabad 211001.

Emson & Co., B-16, Ind. Estate, Meerut Rd., Ghaziabad 201001.

Federal Chemical Works, Ghaziabad 201001.

Flora Pharma Pvt. Ltd., Sushila Sadan, 112/212, Swaroop Nagar, Kanpur 208001.

Garga Pharma Pvt. Ltd., Talkotora Rd., Ind. Area, Lucknow 226001.

Hind Chemicals Ltd., M/336, Rail Bazar, Kanpur 208001.

Parkar Pharm Pvt. Ltd., 84/10, Fazalganj, Kanpur 208012.

Piya Pharmaceutical Works, Mohan Nagar, Ghaziabad 201001.

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Premier Laboratories, 45, Subedarganj, G.T. Rd., Allahabad 211001.

Scientific Research Ind. (I) Pvt. Ltd., 4, Chitwapur Rd., Lucknow 226001.

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A. J. Judah Pharmaceutical Pvt. Ltd., 34, Regent Park, Calcutta 700040.

Albert David Ltd., 15, Chittaranjan Ave., Calcutta 700013.

Alkali & Chemical Corpn. of India Ltd., 18, Strand Rd., Calcutta 700001.

Bengal Chemical & Pharmaceutical Works Ltd., 6, G. C. Ave., Calcutta 700013.

Bengal Immunity Co., Ltd., Immunity House, 153, Lenin Saranee, Calcutta 700013.

Bio-Drug Laboratories Pvt. Ltd., 348, M. Nandakumar Rd. (North), Calcutta 700035.

British Medicine Pharmaceutical Co. Pvt. Ltd., 5/1, H. Mukherjee Rd., Calcutta 700025.

Calcutta Chemical Co. Ltd., 35, Panditia Rd., Calcutta 700029.

Carbon Laboratories, 17, Mall Rd., Calcutta 700028.

Dabur (Dr. S. K. Burman) Pvt. Ltd., 142, R. Behari Ave., Calcutta 700029.

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Indo Pharma Laboratory, 9/12, Lall Bazar St., Calcutta 700001.

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Kemp and Co. Ltd., 32C, Chittaranjan Ave., Calcutta 700012.

Martin & Harris Pvt. Ltd., Mercantile Bldg., 9, Lall Bazar St., Calcutta 700001.

Organon (I) Ltd., Himalaya House, 38, J. L. Nehru Rd., Calcutta 700071.

Reckitt & Coleman of India Ltd., 41, Chowringhee Rd., Calcutta 700016.

Sen's Chemical Works Pvt. Ltd., 271, Chittaranjan Ave., Calcutta 700006.

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Sirdar Carbonic Gas Co. Ltd., Connaught Rd., Bombay 400010.

South India Carbonic Gas Ind. Ltd., Mysore Rd., P O Govt. Electric Factory, Bangalore [illegible]

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Haryana Rang Udyog, B-8, Bhagwan Dass Nagar, Delhi 110026.
Idco Dyes & Chemicals P. Ltd., 189-90, Lawrence Rd., Rampura, Delhi 110035.
Jagadamba Ind. Corpn., 190, Rampura Marg, Delhi 110035.
National Colour Co., Tilak Bazar, Delhi 110006.

Gujarat

Ashok Chemical Ind., Station Rd., Bhavnagar 364001.
Asian Dyestuffs Ind., Kaji's Dhaba, Astodia Rd., Ahmedabad 380001.
Associated Chemical Ind., Opp. Vijay Mill, Naroda Rd., Ahmedabad 380002.
Associated Dyestuff Industries, S/68, Mun. Ind. Estate, Ahmedabad 380021.
Atul Products Ltd., Atul 396020 (Valsad Dist.).
Azo Dyes Corpn., A7, New Cloth Market, Outside Raipur Gate, Ahmedabad 380002.
Chemicals & Dyestuffs Ind., Kalia Kuva, College Rd., Nadiad 387001.
Chemico Intermediates Pvt. Ltd., Plot No. A/17/7, Rd. No. 6, Udyognagar, Udhna 394210.
Chemoacet Ind., M. Gandhi Rd., Udhna Ind. Estate, Udhna 394210.
Coaltar Chemicals Manufg. Co., 55, Hirabhai Market, Ahmedabad 380022.
Collective Chemiplastex Ltd., 17, GIDC Estate, Behrampura, Ahmedabad 380022.
Comet Dyestuffs Pvt. Ltd., Vijaya Mills Comp., Naroda Rd., Ahmedabad 380002.
Devarsons Pvt. Ltd., Narayan Niwas, Astodia, Ahmedabad 380001.
Dye-Azo Pvt. Ltd., C-2/20, Ind. Estate, Vadodara 390003.
Dychem Corpn., Bhavani Chambers, Ashram Rd., Ahmedabad 380009.
Indian Texdyes Ind., Patdi State Bldg., Outside Panchkuva Gate, Ahmedabad 380002.
Madhu Pharma Chem. Pvt. Ltd., 18/1, G.I.D.C., Vatva, Ahmedabad 382445.
Modern Dyestuff Ind., 10-20, Ind. Estate, Godhra 389001.
Modi Dyes & Chemicals Ind., B-73/74, Rd. No. 4, Udyognagar, Udhna 394210.
Premier Chemicals, Chhani Rd., Vadodara 390003.
R.L.C. Corpn., C-8, Ajanta Society, Race Course Rd., Vadodara 390007.
Rainbow Dyestuffs Ltd., Elempecco Bldg., 3rd Flr., Lokmanya Tilak Rd., Vadodara 390005.
Rainbow Ind. Pvt. Ltd., Pratapnagar Rd., Vadodara 390004.
Rockwell Dye-Chem Inds., 101, GIDC, Nandesari 391340 (Valsad Dist.).
Shree Ban Dyes, Bansidhar House, Kankaria Rd., Ahmedabad 380022.
Shree Dira Dye-chem, Bahucharji Rd., Vadodara 390003.
Shree Kalaria Bros., Chikaniwala Estate, Gomtipur, Ahmedabad 380021.
Syndet Pvt. Ltd., Prajapati Bhuvan, Khadia Char Rasta, Ahmedabad 380001.
Textile Aniline & Chemical Co. Pvt. Ltd., Chasmawala House, Pratapnagar Rd., Vadodara, 390004.
Textile Dyestuffs Ind., Odhav Rd., Ahmedabad 380021.
Venus Ind., Munsar Rd., Surendranagar 363001.
Venus Texdyes Corpn., 7, Parikh Estate, Dabhoi Rd., Vadodara 390004.

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Bangalore Ind. Products Corpn., 7-B, Ind. Area, Yeshwantpur, Bangalore 560023.

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M. P. Dye Chem Inds., 9, A/L Indl. Est., Polo Ground, Indore 452001.

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Amar Dye-Chem Ltd., Rang Udyan, Mahim, Bombay 400016.
Amrit Chem Dye Ind., 236, Samuel St., Bombay 400003.
Anand Dyes Ind. Pvt. Ltd., 188/122, Kazi Syed St., Bombay 400003.
Aniline Dyes & Chemical Co., 3, Gilder Lane, Bombay 400008.
Aniline Dyestuffs & Pharmaceuticals Pvt. Ltd., Mahalaxmi Chambers, 22, B. Desai Rd., Bombay 400026.
Arlabs Ltd., 6, India House, W. Hirachand Marg, Bombay 400001.
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Central Dyes Products Pvt. Ltd., Indu Chambers, 349/53, Samuel St., Bombay 400003.
Chemi Dyes Manufrs., 187, Sheriff Devji St., Bombay 400003.
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Chemico Intermediates Pvt. Ltd., Hamam House, A. Doshi Mrg., Bombay 400023.
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Colour Industries, 265, Kalbadevi Rd., Bombay 400002.
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Gharda Chemicals Pvt. Ltd., 48, Hill Rd., Bandra, Bombay [illegible].

Golden Dyes Corpn. (I) Pvt. Ltd., Bela Court No. 2, Colaba, Bombay 400005.

[illegible] Chemicals, Shiv Kripa, Mahant Rd. (Ext.), Vile Parle (E), Bombay 400057.

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Indian Chem-Colour Ind., 313, Samuel St., Bombay 400003.

Indian Dyestuff Inds. Ltd., Mafatlal Centre, Nariman Point, Bombay 400021.

[illegible] Ind., [illegible] Rd., Bhandup, Bombay [illegible].

[illegible] Colour Manufg. Co., [illegible] Bldg., 87/123, Masjid Bunder Rd., Bombay [illegible].

Jasani Dye-Chem Ind., 264, Samuel St., Bombay 400003.

Jay Chemi-Colour Ind., 'Navjivan', 125/127, K. Syed St., Bombay 400003.

Jeevan Products, 412, Jolly Bhavan No. 2, 7, New Marine Lines, Bombay 400020.

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Karsandas Mavji, 273, Samuel St., Bombay 400003.

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M. K. Soorenji & Co., Nazir Bldg., 12, Calicut St., Ballard Estate, Bombay 400038.

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Monarch Dyes & Chemicals, Shirin Chambers, Samuel St., Bombay 400003.

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National Chemical & Colour Co., 267, Samuel St., Bombay 400003.

National Dyes, Bombay Mutual Chambers, 19/12, Hamam St., Bombay 400001.

Navin Ind., Indu Chambers, 349/53, Samuel St., Bombay 400003.

Organo Dyestuff Ind., 202-203, Plot No. 85-86, M. Vasanji Rd., Bombay 400059.

Oriental Chemindus Pvt. Ltd., 2/7th Flr., Tardeo Air-conditioned Mkt., Bombay 400034.

Oriental Intermediates (I), 107, Janjikar St., Bombay 400003.

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Sahyadri Dyestuffs & Chemicals, Mafatlal House, Backbay Reclamation, Bombay 400020.

Sandoz India Ltd., Sandoz House, Dr. A. Besant Rd., Bombay 400018.

Shankar Dyes & Chemical Ind., Sunderbaug Estate, Tulsiwara Bridge, Jogeshwari, Bombay 400060.

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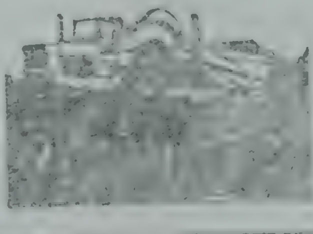

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Tamil Nadu

Bhathey Dyes Inds., 169-E, Ramnad Rd., Madurai 625009.

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Hargolal & Sons, Hargolal Rd., Ambala Cantt. 133001.

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Applied Electronics Pvt. Ltd., Aplab House, Plot No. A-5, Wagle Ind. Estate, Thane 400604.

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Educational Scientific Stores, Himalaya House, Palton Rd., Bombay 400001.

Tamil Nadu

Standard Scientific Instruments Co., 115, Brodies Rd., Madras 600001.

West Bengal

Beliss & Maroom (India) Ltd., 6, Little St., Calcutta 700016.

Instruments & Chemicals Ltd., 4, Wood St., Calcutta 700016.

National Instruments Ltd., Jadavpur, Calcutta 700032.

ELECTRIC CONTROL PANELS

Andrew Yule & Co. Ltd., Electrical Unit, 114, Mayurbhanj Rd., Calcutta 700023.

Bharat Switchgear & Consultants, 3, Favourite Ind. Estate, Masrani Lane, Kurla, Bombay 400070.

Consolidated Engg. A.G., 55-C, Deshapran Sasmal Rd., Calcutta 700033.

D. C. Ghose & Co. (Agents) Pvt. Ltd., 11, Govt. Place East, Calcutta 700069.

Elma Electric Co. Pvt. Ltd., Plot 303, Rd. 32, Wagle Ind. Estate, Thane 400604.

Elmech International Pvt. Ltd., 35, C.R. Avenue, Calcutta 700012.

Essen Deinki, 363, Ind. Area, Chandigarh 160002.

M. C. Mody & Bros. (Engg. Deptt.), 19, Prabhadevi Ind. Estate, V. S. Rd., Bombay 400025.

Macneill & Magor Ltd., 2, Fairlie Place, Calcutta 700001.

Mayfair Electricals, Block A14, 7th Flr., Chatterjee International Centre, 33A, Chowringhee Rd., Calcutta 700071.

Osaka Electronics Enterprises, 122, Vithal Udyognagar, Vallabh Vidyanagar 388120.

Portex Electric Controls, 7, New Okhla Indl. Complex, Phase I, New Delhi 110020.

Rotomac Electricals Ltd., 1-D, Mandeville Gardens, Calcutta 700019.

ELECTRIC FANS

(See under 'Fans' in this list).

ELECTRIC GOODS

Dattatraya Inds. Ltd., Sitaram Bldg., D. N. Rd. (Near M. Phule Mkt.), Bombay 400001.

Ellora Art Industries, Shreeji Bhuwan, Lohar Chawl, Bombay 400002.

Escee Service Centre, Shreeniwas House, 98, Dattaram Lad Mrg., Kalachowki, Bombay 400033.

Jyoti Marketing & Projects Ltd., Bombay Shopping Centre, Race Course, Vadodara 390005.

M C Engg. Co. Pvt. Ltd., 220, Okhla Ind. Est., New Delhi 110020.

Modi & Modi Manufg. Co., 11, Linghi Chetty St., Madras 600001.

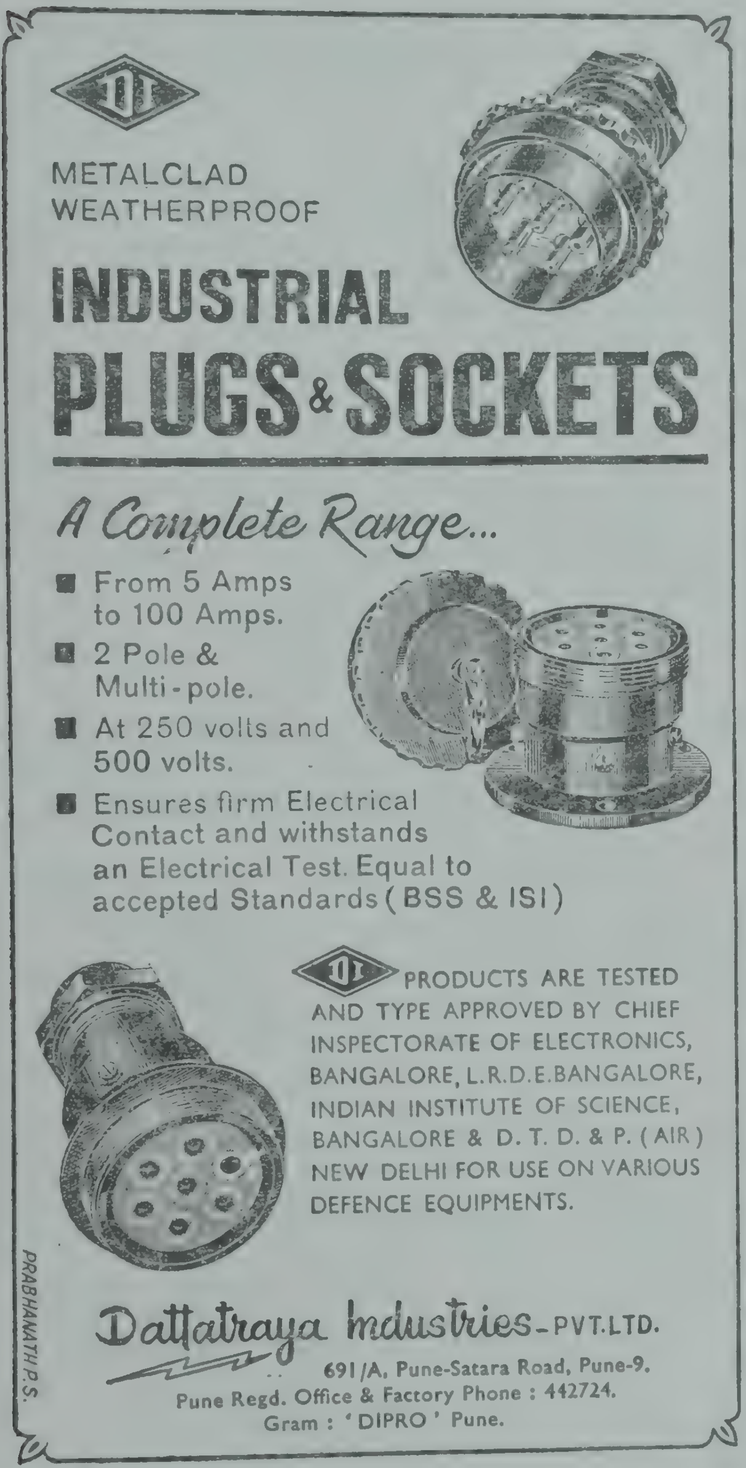
Shakti Capacitors, Industrial Estate, Sangli 416416.

Vadilal H. Barodia & Co., 46, Dr. D. D. Sathe Marg, Bombay 400004.

ELECTRIC LAMPS & ACCESSORIES

Bihar

Pradip Lamp Works, Jayakrishna Rd., Patna 800009.



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Phone : 343566.

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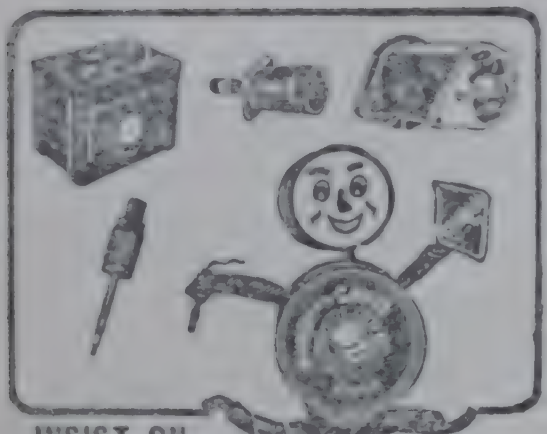

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Delhi

Auto Lamps Ltd., 6, Alipur Rd., Delhi 110006.

Neonlite Manufg. Co., 21, Darya Ganj, New Delhi 110002.

Philips India Ltd., 68, Najafgarh Rd., New Delhi 110015.

Sylvania & Laxman Ltd., 68/2, Najafgarh Rd., New Delhi 110015.

Karnataka

Metal Lamp Caps India Ltd., 2, Murphy Rd., Ulsoor, Bangalore 560008.

Mysore Lamp Works, P.B. No. 1209, Bangalore 560055.

Neon Signs (Mysore) Pvt. Ltd., 26, 1st Main Gandhinagar, Bangalore 560009.

Kerala

Toshiba Anand Lamps Ltd., XXXI 1989, M. Gandhi Rd., Ernakulam, Cochin 682011.

Madhya Pradesh

Kalpana Inds., A-4/D, Indl. Est., Indore 452003.

Maharashtra

Bajaj Electricals Ltd., 45-47, Veer Nariman Rd., Bombay 400001.

Bijlee Products (I.) Pvt. Ltd., 70, Hadapsar Ind. Estate, Pune 411013.

Cielmac Pvt. Ltd., 35, Mahal Ind. Estate, Mahakali Caves Rd., Bombay 400093.

Crafts-Do-Fluorescent, 8, Sitafalwadi, Mount Rd., Mazagaon, Bombay 400010.

Crompton Greaves Ltd., Kanjur, Bombay 400078.

Ellora Art Ind., Shreeji Bhuvan, Lohar Chawl, Bombay 400002.

Glolite Electricals, Anjirwadi, Champsi Bhimji Rd., Bombay 400010.

Hindco Lighting Ind. Ltd., Hindlight House, Subash Nagar, Jogeshwari (East), Bombay 400060.

Lamp Caps and Filaments Ltd., 32, R. Dadaji St., Bombay 400001.

Markeel Pvt. Ltd., Shreeji Bhuvan, Lohar Chawl, Bombay 400002.

Philips India Ltd., Shivsagar Estate, Block A, Dr. Annie Besant Rd., Bombay 400018.

Premier Lighting Ind. Pvt. Ltd., Jhaveri Bldg., 348-352, A. Rehman St., Bombay 400003.

Rakesh Bulb Industries, Raghu Prasad, 7, Taduwala Rd., Pune 411001.

Tamil Nadu

International Lighting Ind., 26, Arumugam St., Madras 600001.

Sankar Electric Industries, Super B-4, Ind. Estate, Madurai 625001.

Zenith Lamps & Electricals Ltd., Grand Trunk Rd., Madhavaram, Madras 600060.

Uttar Pradesh

Hind Lamps Ltd., Shikohabad 205135.

Miniature Bulb Industries (India) Ltd., 131, Kanwali Rd., Dehra Dun 248001.

West Bengal

Bengal Electric Lamp Works, 4, Fairlie Place, Calcutta 700001.

Bharat Electrical Ind. Ltd., 23, R. Mukherjee Rd., Calcutta 700001.

Dazzle Products Ltd., 138, B. R. B. Basu Rd., Calcutta 700001.

Deepsun Ind. Corpn., 36, Ezra St., Calcutta 700001.

Electric Lamp Mfrs. (India) Ltd., 1, Tartolla Rd., Calcutta 700024.

General Electric Co. of India Ltd., 6, Chittaranjan Ave., Calcutta 700013.

J. K. Dey & Sons, 13, Old China Bazar St., Calcutta 700001.

Jayanta Electric Lamp Works, 33/4, M. Pukur Rd., Calcutta 700001.

Lite Eng. Ind., 19, Pollock St., Calcutta 700001.

Mazda Lamp Company, 225D, Acharya J. C. Bose Rd., Calcutta 700020.

Unique Electrical Works, 12-B, Rai Charan Pal Lane, Calcutta 700046.

Universal Lamp Mfg. Co. Pvt. Ltd., 93-B, Ripon St., Calcutta 700016.

ELECTRIC LAUNDRY APPARATUS

Maharashtra

Bajaj Electricals Ltd., 45-47, V. Nariman Rd., Bombay 400001.

ELECTRIC LIFTS

Best & Crompton Engg. Co. Ltd., 13/15, North Beach Rd., Madras 600001.

Bharat Bijlee Ltd., Electric Mansion, Prabhadevi, Bombay 400025.

Consolidated Hoists Pvt. Ltd., Pune 411009.

Electric Construction & Equipment Co. Ltd., K. Singhee Rd., Calcutta 700002.

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M. N. Nair, *Whole-time Director & Works Manager,*
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Telephones : 693346 (4 lines), 693806.

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Bombay District Office :
S. S. Sujan, *Bombay District Manager,*
Rehem Mansion No. 1,
42, Shahid Bhagatsingh Road, Bombay 400 039.
Telephone : 231878.

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Calcutta District Office :
S. Mittra, *Calcutta District Manager,*
Jeevan Deep, 1, Middleton Street, Calcutta 700 071
Telephones : 442402/03, 447330.

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New Delhi District Office :
R. R. Bajaaj, *New Delhi District Manager,*
Otis House, 7/48, Malcha Marg, Chanakyapuri,
New Delhi 110 021.
Telephones : 374501/2/3.

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Madras District Office :
J. M. Bhavnagarwala, *Madras District Manager,*
Bharat Insurance Building, 1/18, Anna Salai,
Madras 600 002.
Telephones : 86021/2.

ELECTRIC METERS & MEASURING INSTRUMENTS

(See under Meters & Measuring Instruments).

ELECTRIC MOTORS

(See under Motors—Electric).

ELECTRIC TOOLS & STAMPINGS

Aarvy Power Tools Pvt. Ltd., 174, GVMM Ind. Complex, Odhav Rd., Ahmedabad 382410.

Devidayal Stainless Steel Ind. Pvt. Ltd., Darukhana, Reay Rd., Bombay 400010.

Kulkarni-Black & Decker Ltd., Shirol 416103. Kolhapur Dist.

Westrex Electrical Stampings, 107, Mittal Estate, Saki Naka, Bombay 400059.

ELECTRIC WIRES, CABLES & ACCESSORIES

Andhra Pradesh

Andhra Industrial Works, C-2, Indl. Estate, P. B. No. 20, Cuddapah 516001.

Bojat Agro Industrial Corpn., Enikebadu, Vijayawada 520005.

Galada Continuous Castings Ltd., P-2/6, I.D.A. Block 111, Uppal, Hyderabad 500039.

Hyderabad Aluminium Industries, A-6, Cooperative Industrial Estate, Balanagar, Hyderabad 500037.

Krishan Conductors Pvt. Ltd., Anjaneya Pantula St. Labripet, Vijayawada 520005.

Premier Metal Works, C-1, Industrial Estate, Vijayawada 520007.

DEVIDAYAL STAINLESS STEEL INDUSTRIES PRIVATE LTD.

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Factory & Office :
Kanjur Village Road, Bhandup,
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Darukhana, Reay Road,
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Phone : 395041.

Manufacturers of :
Electrical Stampings.

Ranka Cables Corporation, Industrial Estate, Cuddapah 516001.

Sakti Engineering Co., Museum Road, Governorpeta, Vijayawada 520001.

Technind Cables, F-5, Industrial Estate, Nandyal 518502.

Assam

Assam Conductors & Tubes Ltd., P.O. Bamuni Maidan, Gauhati 781021.

Bihar

Express Cables Pvt. Ltd., Fraser Rd., Patna 800001.

Maruti Wire Industry Pvt. Ltd., Cantt Rd., P.O. Khaganal, Patna 801105.

Muzaffarpur Hosiery Industries & Agencies Pvt. Ltd., Exhibition Rd., Patna 800001.

Progressive Industrial Corpn., India Machinery Bldg., Exhibition Rd., Patna 800001.

Universal Wires & Industries, India Machinery Bldg., 2nd Flr., Exhibition Rd., Patna 800001.

Delhi

Aluminium Industries Ltd., H-108, Himalaya House, Kasturba Gandhi Marg, New Delhi 110001.

G. S. Inds., 4-F, Vijaynagar, Kingsway, Delhi 110009.

Grandlay Electricals (India), 3/4, Asaf Ali Rd., New Delhi 110002.

Indian Aluminium Cables Ltd., 7th Flr., Kanchenjunga Bldg., 18, Barakhamba Rd., New Delhi 110001.

Modi Plastic & Estate Pvt. Ltd., 227, Guru Nanak Auto Market, Kashmeri Gate, Delhi 110006.

Premier Cable Co., 14/15F, Connaught Place, New Delhi 110001.

R. S. Hard Metal Manufacturing Co., 26, Feroze Gandhi Rd., Lajpat Nagar III, New Delhi 110024.

Standard Metal Wires Pvt. Ltd., A-26, Naraina Industrial Area, Phase I, New Delhi 110028.

Gujarat

Ashapura Electricals, A-2-629, GIDC Makarpura Indl. Estate, Vadodara 390003.

Bombay Conductors & Electricals Pvt. Ltd., P.B. No. 9002, Maninagar, Ahmedabad 380008.

Devendra Wire Works, Rd. No. 3, Udhna Udyognagar, Udhna 394210.

Diamond Cables, 5/12, 'A' Indl. Estate, Gorwa Rd., Vadodara 390003.

Hindustan Conductors Pvt. Ltd., Opp. W. Rly. 'D' Cabin, Chhanni Rd., Vadodara 390002.

India Metal Traders, Rd. No. 10, Indl. Estate, Udhna 394210.

Prem Conductors Pvt. Ltd., 211, New Cloth Market, Ahmedabad 380002.

Sampat Heavy Engineering Co., 231, Anand Cloth Market, Nr. Sarangpur Bridge, Ahmedabad 380002.

Unique Industries, P. B. No. 54, Nadiad 387001.

Haryana

Haryana Conductors Pvt. Ltd., 17th Milestone, G. T. Rd., Kundli 131028.

Himachal Pradesh

Himachal Conductors Pvt. Ltd., Sabathu Rd., Saproon 173211, Solan Dist.

Salecha Cables Pvt. Ltd., 22, Indl. Area, Mehatpura.

Jammu & Kashmir

Diko Cables, The Bund, Srinagar 190001.

Kumar Electricals, 31, Indl. Estate, Hira Nagar 184142.

Ravi Conductors, 26-A/D, Gandhi Nagar Extension, Jammu 180004.

Karnataka

Bangalore Cables Pvt. Ltd., 11 KM, Hosur Rd., Bangalore 562129.

Bharat Conductors Pvt. Ltd., A-8, Peenya Indl. Estate, Peenya, Bangalore 562140.

Karnataka Conductor Pvt. Ltd., Udyambagh, Belgaum 590006.

Sharavathy Conductors Pvt. Ltd., 19, OMR Industrial Estate, 6th Mile, Old Madras Rd., Bangalore 560016.

Transmission Wire & Accessories, Raghava Sadana, Ramvilas Rd., Mysore 570001.

Kerala

Anjaniya Industries, Plot 88, Major Indl. Estate, South Kalamassery 670562.

General Metals, (Props., Premier Enterprise Pvt. Ltd.), Indl. Estate, Trivandrum 695019.

Madhav Aluminium Conductors Pvt. Ltd., Saraf House, W/Island, Cochin 682003.

Southern Cables & Engineering Works, Chulikkal, Cochin 682005.

Madhya Pradesh

Deora PU Cabcon Manufacturing Co. Pvt. Ltd., 17/18, Polo Ground, Indore 452001.

Gwalior Cables & Conductors Ltd., Indl. Estate, Birla Nagar, Gwalior 474004.

Jayant Copper & Steel Products, Sadar Bazar, Bilaspur 495001.

M.P. Wires & Conductors Pvt. Ltd., 31, Indl. Estate, Gwalior 474004.

Mutha Industrial Corporation, Halwai Lane, Raipur 492001.

Narmada Industries, 6/1, Indl. Estate, Govindpura, Bhopal 462001.

Skyline Industries Pvt. Ltd., 8/4, Sukliya Indl. Area, Indore 452003.

Veekay Electricals, 994, Wright Town, Jabalpur 482001.

Vindhya Enterprises, P. B. No. 43, Rani Baug, Rewa 486001.

Maharashtra

Devidayal Electronics & Wires Ltd., Gupta Mills Estate, Reay Rd., Bombay 400010.

Dharendra Wire Industries, 198/24, Kalbadevi Rd., Bombay 400002.

Insulating Wire Industries, A-59, 1st Flr., Virvani Indl. Estate, Western Express Highway, Goregaon (East), Bombay 400063.

Jay Electric Wire Corpn. Ltd., Maker Bhavan No. 2, New Marine Lines, Bombay 400020.

Laxmi Wire & Metal Industries, 202, Arun Chambers, 2nd Flr., Tardeo Rd., Bombay 400034.

Madhu Electricals, 5-B, Vijay Chamber, Tribhuvan Rd., Bombay 400004.

Patel Wire Industries, Daya Mandir, 4th Flr., 43/25, Mumbadevi Rd., Bombay 400003.

Wandleside National Conductors Ltd., Ind. Estate, Lalbaug, Bombay 400012.

(Also see Wires, Cables and Accessories in this list.)

DEVIDAYAL ELECTRONICS AND WIRES LIMITED

Gupta Mills Estate, Reay Road,
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Orissa

Hira Cable Works, P.O. Hirakud, Sambalpur Dist. 768016.

Gupta Cables Pvt. Ltd., Station Rd., Bhubaneswar 751006.

Punjab

Associated Wires and Conductors Co. Pvt. Ltd., Tanda Rd., Jullundur City 144001.

Ganga Steel Rolling Mills & Co., 188/5, B. T. Bye Pass Rd., Ludhiana 141001.

Industrial Cables India Ltd., Industrial Area, Rajpura 140401.

United General Industries, E/4, Indl. Focal Point, Mohali, Rupar Dist.

Rajasthan

Indo Engineering (Kota) Pvt. Ltd., Gumanpura, Kota 324001.

Jaipur Metals & Electricals Ltd., Nr. Rly. Station, Jaipur 302006.

Metal Extrusions, 44, Sudershanpura Indl. Estate, Jaipur 302006.

Murarka Enterprises, 11-B, Vallabhnagar, Kota 324007.

New Age Cable Company, Amber Rd., Jaipur 302001.

Oswal Cables Pvt. Ltd., D-249, Devi Marg, Bani Park, Jaipur 302006.

Paras Pvt. Ltd., 16, Indl. Area, Banaswara 327001.

Prem Cables Pvt. Ltd., P.O. Pipalia Kalan 306307. *Via* Sojat Rd.

Rajasthan Wire Products, 36, Sudershan Estate, Jaipur 302006.

Tamil Nadu

Madras Electrical Conductors Pvt. Ltd., 37, Arcot Rd., Madras 600026.

Modi Electric Manufacturing Co., 10-B, Kasturi Ranga Iyengar Rd., Alwarpet, Madras 600018.

Reavathee Enterprises, Developed Plot No. 30, Industrial Estate, Guindy, Madras 600032.

Uttar Pradesh

Agarwal Cables, Malgodown Rd., Faizabad 224001.

Anand Cables, 21, Vidhan Sabha Marg, Lucknow 226001.

Arkay Wires Pvt. Ltd., 117/491, Pandu Nagar, Kanpur 208005.

Kashi Cables, D-7, Indl. Estate, Varanasi 221002.

Smita Conductor Pvt. Ltd., Village Kot, Ghaziabad 201001.

West Bengal

Aluminium Cables & Conductors (U.P.) Pvt. Ltd., 2-1, Shakespeare Sarani, Calcutta 700016.

B. S. Industries, 2, Maharishi Devendra Rd., Calcutta 700007.

Bihar Cable & Wire Industries Ltd., P-21/22, Radha Bazar St., Calcutta 700001.

Bindawala Industrial Corpn., 6, Hanspukar 1st Lane, Calcutta 700007.

Calcutta Cables Co., 6, Punam Chand Bagaria Rd., Bally 711201.

Electrical Accessories Co., Mercantile Bldgs., 2nd Flr., Lall Bazar St., Box No. 2198, Calcutta 700001.

Electrical Manufacturing Co. Ltd., 136, Jassore Rd., Calcutta 700055.

J. J. H. Industries Ltd., 9, Transport Depot Rd., Calcutta 700027.

Jeewanlal (1929) Ltd., Crown Aluminium House, 23, Brabourne Rd., Calcutta 700001.

Khemka Cable Works Pvt. Ltd., 83, Beadon St., Calcutta 700006.

National Cable Works Ltd., 20, Goalpara Rd., Calcutta 700060.

National Screw & Wire Products Ltd., 51, Stephen House, 4, Dalhousie Square East, Calcutta 700001.

ELECTRICAL APPLIANCES — DOMESTIC

Delhi

Elite Electl. Inds., 5332, Chandrawal Rd., Subzi Mandi, Delhi 110007.

Jain Industries, 483, Bartan Market, Sadar Bazar, Delhi 110006.

M. C. Engg. Co. Pvt. Ltd., 220, Okhla Ind. Est., New Delhi 110020.

Monarch Engg., 110, New Okhla Ind. Complex, Phase I, New Delhi 110020.

Nagpal Traders Pvt. Ltd., M-12, Gr. Kailash Market, New Delhi 110048.

Soneeka Appliances, P-15, Green Park Ext., New Delhi 110016.

Haryana

American Universal Electric (I) Ltd., Model Town, Faridabad 121003.

Karnataka

Associated Electronic & Electrical Ind. (Bangalore) Pvt. Ltd., 1, Church St., Bangalore 560001.

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National Radio & Electronics Co. Ltd., 36/79, Silver Jubilee Park Rd., Bangalore 560002.

Maharashtra

Anchor Inds., 185, Bombay Talkies Compd., Malad, Bombay 400064.

Bajaj Electricals Ltd., 45-47, V. Nariman Rd., Bombay 400001.

Devidayal Stainless Steel Ind. Pvt. Ltd., Darukhana, Reay Rd., Bombay 400010.

Escee Kitchenaid, Shreenivas House, 98, Dattaram Lad Mrg., Kalachowki, Bombay 400033.

Filco Electric Inds., Hammersmith Indl. Estate, S. Temple Rd., Bombay 400016.

Homa Ind., 125-H, Andheri Kurla Rd., Bombay 400059.

Industrial Controls & Appliances Pvt. Ltd., 47, Chakala Rd., Andheri (East), Bombay 400069.

Killick Nixon Ltd., Killick House, Home St., Bombay 400001.

Philips India Ltd., Shivsagar Estate, Dr. A. B. Rd., Bombay 400018.

R. G. Keswani Ind., 132, Dr. A. Besant Rd., Worli Naka, Bombay 400018.

Racold Appliances Pvt. Ltd., 17, 1st Pasta Lane, Colaba, Bombay 400005.

Soly-Ray Appliances Pvt. Ltd., Dorabjee & Co., 1-B, Moledina Rd., Pune 411001.

Standard Electrical Products, Oshiwara Bldg., S. V. Rd., Jogeshwari West, Bombay 400060.

Veejay's Trading Corporation, 49, K. M. Sharma Marg, Bombay 400002.

Vohras Enterprises, 22, Police Court Lane, Bombay 400001.

Tamil Nadu

Standard Electric Appliances, 27, Gen. Patters Rd., Madras 600002.

Uttar Pradesh

India Sales & Service Pvt. Ltd., C32/27, Vidyapith Rd., Varanasi 221002.

West Bengal

General Electric Co. of India Ltd., 6, Chittaranjan Ave., Calcutta 700013.

ELECTRICAL APPLIANCES — INDUSTRIAL

Delhi

Asea Ltd., 310, Bhandari House, Nehru Place, New Delhi 110024.

German Electric Co. Inc., United India Life Bldg., Conn. Place, New Delhi 110001.

MC Engg. Co. Pvt. Ltd., Unit II, 20, Okhla Indl. Estate, New Delhi 110020.

Maharashtra

Alpha Electric & Engg. Co., 13/15, New Prabhat Chambers, 89, Ranade Rd., Dadar, Bombay 400028.

Asea Ltd., Asea House, Goa St., Ballard Estate, Bombay 400038.

Dattatraya Industries Pvt. Ltd., 691-A, Poona–Satara Rd., Pune 411009.

Forward Engg. Ind., Plot No. A-8, Road No. 1-N, M.I.D.C., Thane 400604.

Lawkim Ltd., 16, Horniman Circle, Bombay 400023.

Navbharat Electrical Industries, Premji Chambers, Hospital Lane, Bombay 400001.

Philips India Ltd., Shivsagar Estate, Dr. A. Besant Rd., Bombay 400018.

Shalimar Electronic Inds., Navketan Ind. Estate, Mahakali Rd., Bombay 400069.

Sushra & Co., Ghatkopar Indl. Est., Shastri Marg, Bombay 400086.

Vimal Electl. Inds., 100, Lalbaug Garden Rd. No. 1, Malad West, Bombay 400064.

Tamil Nadu

English Electric Co. of India Ltd., Pallavaram, Madras 600043.

Kumar Electl. Inds., 61, N.S.C. Bose Rd., Madras 600001.

West Bengal

Asea Ltd., 4, Lyons Range, Calcutta 700001.

Motor & Machinery Manufrs. Ltd., 10, Jawpur Rd., Calcutta 700030.

ELECTRICAL DISTRIBUTION & TRANSMISSION LINE EQUIPMENT

Delhi

Allied Electric & Hardware Ind. Pvt. Ltd., 10307, Motia Khan, New Delhi 110055.

Asea Ltd., 301, Bhandari House, 91, Nehru Place, New Delhi 110024.

Gujarat

Amul Transmission Line Hardware Pvt. Ltd., Parikh Estate, Dabhoi Rd., Vadodara 390004.

Appex Electricals, Vijay Ind. Estate, Padra Rd., Samiala, Vadodara 390001.

Bharat Lindner Pvt. Ltd., C-2/19, Ind. Estate, Vadodara 390003.

Electro Engg. Products, 77, Haribhakti Colony Extn., Old Padra Rd., Vadodara 390007.

Jaibharat Poles Manufg. & Engg. Co., 4/5, Ind. Estate, Vadodara 390003.

Johnson Electric Co., Chhani Rd., Navayard, Vadodara 390002.

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Transasia Transformers Pvt. Ltd., 86, Ind. Estate, Naroda, Ahmedabad 380002.

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Fortune Electrical (India) Pvt. Ltd., 173, Rashtreeya Vidyalaya Rd., Visveswarapuram, Bangalore 560004.

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Asea Ltd., Asea House, Goa St., Bombay 400038.

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Hindustan Brown Boveri Ltd., Brown Boveri House, 264-265, Dr. A. Besant Rd., Bombay 400025.

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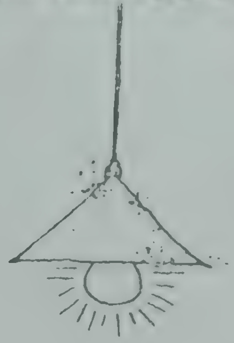

From darkness into light...

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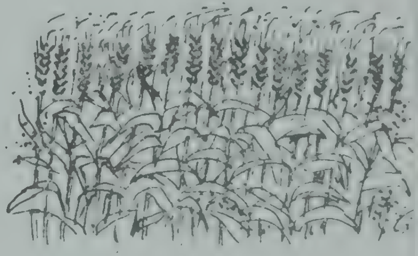

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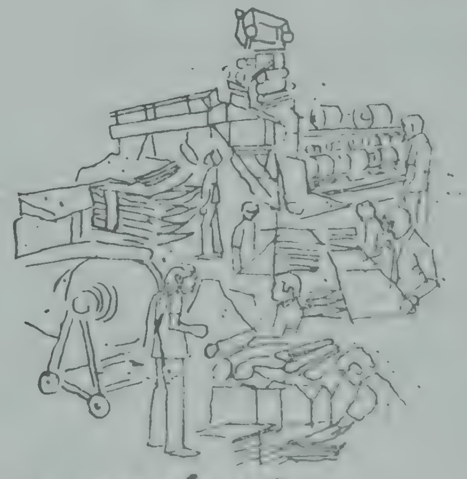

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Micro Ceramics Pvt. Ltd., A-8, Co-op. Ind. Estate, Balanagar, Hyderabad 500037.

Scientific Electricals Sales Pvt: Ltd., Shalibanda, Hyderabad 500002.

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Varicon Pvt. Ltd., 239, Okhla Indl. Estate, New Delhi 110020.

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Continental Electronics, 177/4, Naroda Indl. Estate, Naroda 382330. (Ahmedabad Dist.)

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Kamal Ind., 2-F, M. Gandhi Rd., Bangalore 560001.

Karnataka State Electronic Devpt. Corpn., 36, Cunningham Rd., Bangalore 560052.

Nippon Electronics (India) Pvt. Ltd., Bull Temple Rd., Bangalore 560019.

Rao Insulating Co. Pvt. Ltd., Whitefield P.O. 562136. Bangalore Dist.

Sarit Manufg. & Research Centre, 5/3, Bore Bank Rd., Bangalore 560006.

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Kerala State Electronics Dev. Corpn. Ltd., 1133 & 1134, Keltron House, Vellayambalam, Trivandrum 695001.

O/E/N India Ltd., Electrogiri, Mullanthuruthy, Cochin 682314.

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Allied Electronics Corpn., 94, Kansara Chawl, Bombay 400002.

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Bush India Ltd., Post Box No. 3, Thane Indl. Area, Thane 400604.

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Kaycee Industries Ltd., 32, Nicol Rd., Ballard Estate, Bombay 400038.

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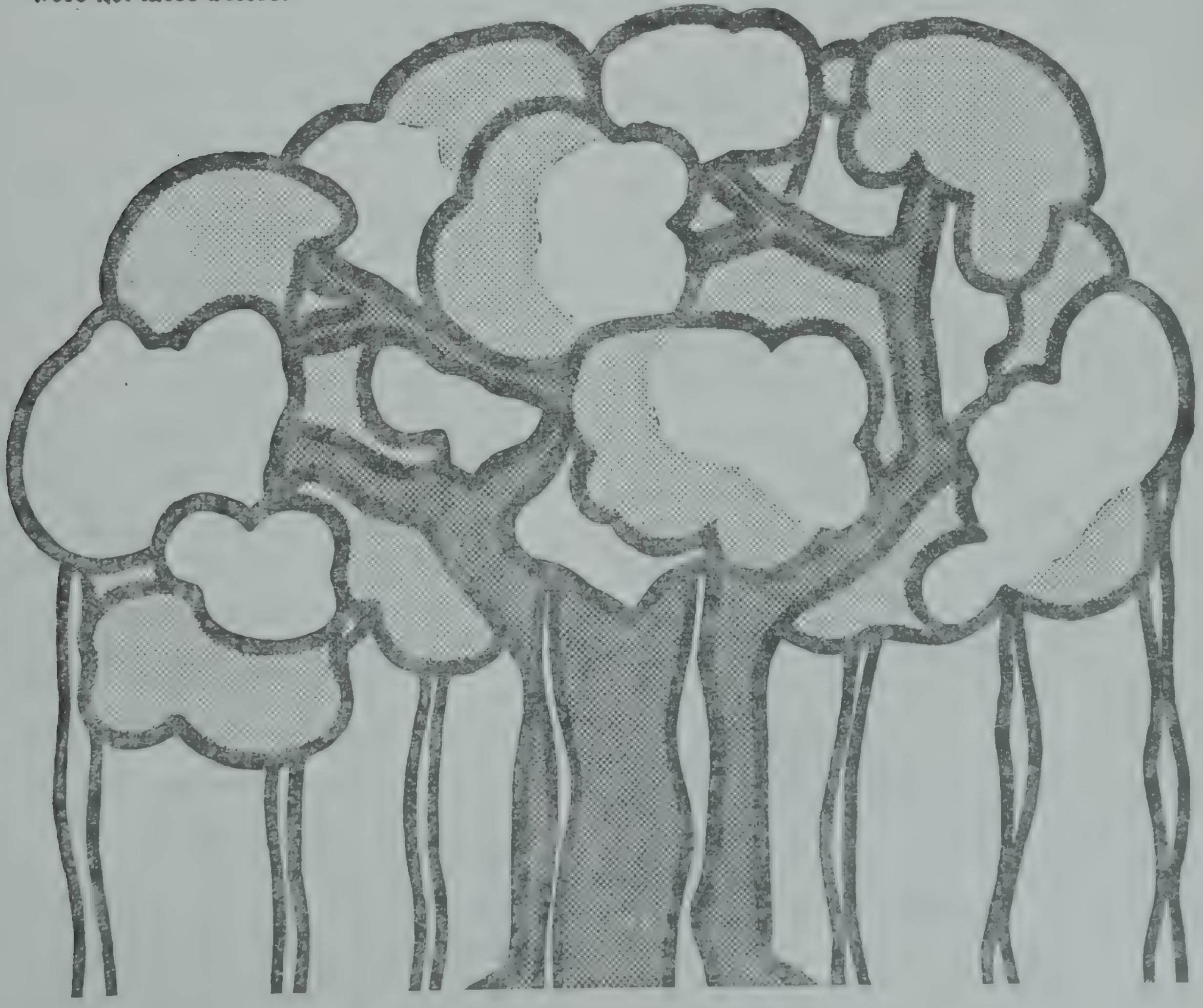

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Plastic Dies Co., Electronics Dn., 22-B, Govandi Stn. Rd., Bombay 400088.

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Cleaners, Brighteners, Salts, Strippers, Plating on Aluminium/Plastic/Printed Circuit Boards. Electroless Copper/Nickel/Tin, Nickel Sulphate, Nickel Chloride, Nickel Carbonate, Nickel Sulphamate, Cadmium Oxide. Polishing Compositions and Buffing Compositions.

Manual,—Semi - and - Fully automatic—Programme Controlled Plants, Equipment — Titanium Baskets, Heating/Cooling Coils, Fingers for Caustic Soda Plants/Pumps and Components.

Weldun Engg. & Trading Co., 71A, N. Subhas Rd., Calcutta 700001.

ELECTROPLATING PLANTS

Grauer & Weil India Ltd., Sukh Sagar, Hughes Rd., Bombay 400007.

Kirti Engg. Works, B. K. Chhabra Compound, Vakola Bridge, Santa Cruz (E), Bombay 400055.

Navyug Ind., L. J. Cross Rd. No. 1, Mahim, Bombay 400016.

ELEVATORS

(See under Electrical Lifts in this list).

EMBOSSING MACHINES

Bradma of India Ltd., Lakshmi Bldg., Sir P. Mehta Rd., Bombay 400001.

EMERGENCY LIGHT

Indian Technological Products, Flat No. 305, Bldg. No. 35-36, Nehru Place, New Delhi 110024.

ENAMELWARE

Andhra Pradesh

Deccan Porcelain & Enamel Works Ltd., 2707, Bakaram, Mushirabad, Hyderabad 500020.

Nellore Enamels, Ind. Estate, Nellore 524001.

Maharashtra

Anant Machinery Pvt. Ltd., Plot No. 3 B, Chinchwad Ind. Area, Chinchwad, Pune 411019.

Atlas Engineering Works, Old Anjir Wadi, Champshi Bhimji Rd., Mazagaon, Bombay 400010.

Enamelled Wires Ltd., Khanna Construction House, 44/A, Gaffar Khan Rd., Bombay 400018.

Lans Metals Pvt. Ltd., Kasturchand Mills Compd., Bapat Mrg., Bombay 400016.

Ogale Glass Works Ltd., Ogalewadi 415105. Satara Dist.

Pioneer Enameling Works, Lakshmi Bldg., Sir P. Mehta Rd., Bombay 400001.

Tamil Nadu

Madras Enamel Works Ltd., 65, Sydenham Rd., Madras 600003.

West Bengal

A. K. Sarkar Ind. Pvt. Ltd., 32-1, Dalhousie Sq., East, Calcutta 700001.

Bengal Enamel Works Ltd., 24, Chittaranjan Ave., Calcutta 700012.

Bharat Tin & Enamel Co., Pvt. Ltd., 2A, Shakespeare Sarani, Calcutta 700016.

Blue Star Enamelware Co. Pvt. Ltd., 4, Dalhousie Sq. East, Calcutta 700017.

Sur Enamel & Stamping Works Ltd., 24, Dr. L. M. Bhattacharya Rd., Calcutta 700014.

ENGINES — DIESEL

(See 'Diesel Engines' in this list.)

ENGINES, EXPELLERS — OIL

Kirloskar Oil Engines Ltd., 13, Laxmanrao Kirloskar Rd., Khadki, Pune 411003.

New Bharat Engg. Works (Jam.) Ltd., Pandit Nehru Rd., Jamnagar 361002.

Patel Manufacturers, P. Box 510, Rajkot 360001.

Shree Shankar Steel Inds., Samir Takuja, Gaya 823001.

Swastik Engrs., 7, Bhaktinagar, Stn. Rd., Rajkot 360002.

(See also ' Oil Mill Machinery ' in this list).

ESSENCES

A. Boake Roberts & Co. India Ltd., 1-5, Seven Wells St., St. Thomas Mount, Madras 600016.

Asian Chemical Works, 124-26, Princess St., Bombay 400002.

Naarden Chemical Works (India) Ltd., Plot No. 6, Saki Naka, Bombay 400076.

EXPLOSIVES

Indian Detonators Ltd., Kukatpalli, P.O. Sanatnagar, Hyderabad 500018.

Indian Explosives Ltd., 34, Chowringhee, Calcutta 700016.

Sharda Industrial Engg. Works, 8, Siddapura Ind. Estate, Masrani Lane, Halav Pool, Kurla, Bombay 400070.

FABRICATION—STEEL

(See under Steel Fabrication in this list.)

FANS—ELECTRIC

Andhra Pradesh

Hyderabad Engg. Inds., Balanagar Township, Hyderabad 500037.

Haryana

American Universal Electric (I) Ltd., Model Town, Faridabad 121003.

Gujarat

Nima Ltd., Tandalja, Vadodara 391410.

Karnataka

Fibre Lamination of India, 7/1, S. R. Nilaya, G.E.F. Post, Mysore Rd., Bangalore 560026.

Maharashtra

Almonard Pvt. Ltd.. 4, Saki-Vihar Rd., Bombay 400072.

Bajaj Electricals Ltd., 45, V. Nariman Rd., Bombay 400001.

Crompton Greaves Ltd., 1, Forbes St., Bombay 400001.

Emco Electra Pvt. Ltd., 94, N. Master Rd., Bombay 400001.

Matchwel Electricals (I) Ltd., Off Nagar Rd., Pune 411014.

Rallis India Ltd., 21, Raveline St., Bombay 400001.

Punjab

Beegee Corpn. Pvt. Ltd., 25, Factory Area, Patiala 147001.

Tamil Nadu

National Electricals, 3-10, Ambattur Indl. Estate, Madras 600058.

P. S. G. & Sons, Peelamedu, Coimbatore 641004.

West Bengal

Bharat Electrical Ind. Ltd., P11, Mission Row Extn., Calcutta 700001.

Calcutta Fan Works Pvt. Ltd., 30, Chowringhee Rd., Calcutta 700016.

Clyde Fan Co. Pvt. Ltd., Rai Bahadur Rd., Behala, Calcutta 700034.

G. T. R. Company Pvt. Ltd., 37, Dum Dum Rd., Calcutta 700030.

General Electric Co. of India Ltd., 6, Chittaranjan Ave., Calcutta 700013.

Jay Engineering Works Ltd., 183-A, Prince A. Shah Rd., Calcutta 700031.

Khaitan Fans Pvt. Ltd., 'Everest', 18th Flr., 46-C, Jawaharlal Nehru Rd., Calcutta 700001.

Marshall Sons & Co. (India) Ltd., 75-C, Park St., Calcutta 700016.

Orient General Ind. Ltd., 6, Ghori Bibi Lane, Calcutta 700054.

Panday Ind. Pvt. Ltd., 202/2, N. Subhas Rd., Calcutta 700047.

Polar Fan Inds., 51, Ezra St., Calcutta 700001.

FANS—INDUSTRIAL & BLOWERS

A. Stock & Co. Ltd., 3, Camac St., Calcutta 700016.

Air Conditioning Corp. Ltd., 17, Taratolla Rd., Calcutta 700053.

Almonard Pvt. Ltd., Off Saki Vihar Rd., Saki Naka, Bombay 400072.

American Refrigeration Co. Ltd., 13-C, Russell St., Calcutta 700071.

Andrew Yule & Co. Ltd., 8, Clive Rd., Calcutta 700001.

C. Doctor & Co. Pvt. Ltd., 11, Homi Mody St., Bombay 400023.

Flow Link Inds., 370, Jodhpur Park, Calcutta 700068.

Forge & Blower Co., Naroda Rd., Ahmedabad 380002.

General Electric Co. of India Ltd., Magnet House, 6, C. R. Avenue, Calcutta 700013.

New Standard Engg. Co. Ltd., Caroll Rd., Bombay 400013.

S. F. Products India Ltd., P. Box No. 411, Calcutta 700011.

Wesman Engg. Co. Pvt. Ltd., 1/2, Allenby Rd., Calcutta 700001.

FASTENERS—INDUSTRIAL

Andhra Pradesh

Screwmans, B.I. Unit, Ind. Estate, Vijayawada 520007.

Bihar

Bihar Fasteners Ltd., Katari Hill Rd., Gaya 823001.

Indian Steel & Wire Products Ltd., P.O. Indranagar, Jamshedpur 831008.

Gujarat

Industrial Fasteners of Gujarat Pvt. Ltd., Opp. Makarpura Rly. Station, Maneja 391710. Vadodara Dist.

Haryana

Jagatjit Engineering Works Pvt. Ltd., 17/6, Mathura Rd., Faridabad 121001.

Sikands Ltd., 61, N.I.T., Faridabad 121001.

Karnataka

Emcee Automatics, 32, Small Scale Ind. Area, 'V' Block, Rajajinagar, Bangalore 560010.

Reliance Fasteners Pvt. Ltd., 157, Indl. Town, Rajajinagar, Bangalore 560044.

Sri Venkateswara Enterprises, B-69, H.M.T. Ind. Estate, Bangalore 560031.

Maharashtra

Agarwal Steel Ind., Military Rd., Marol, Bombay 400069.

Avdel (I) Pvt. Ltd., Ramon House, Backbay Recl., Bombay 400020.

Bright Bolt Pvt. Ltd., Nanjee Bldg., 17 B, Horniman Circle, Bombay 400023.

Fit Tight Nuts & Bolt Ltd., Old Ashram, Andheri Kurla Rd., Andheri, Bombay 400069.

Hindustan Steel Ind., 4, Govt. Ind. Estate, Kandivli West Bombay 400067.

Industrial Components, Sun Mill Compound, Bombay 400033.

Manco Ind., Shed No. F, Sainath Ind. Estate, Off Aarey Rd., Goregaon East, Bombay 400063.

Precision Fasteners Ltd., New India Centre, 12th Flr., (South Wing), 17, Cooperage Rd., Bombay 400039.

Precision Steel Fasteners, S. No. 209, Bombay-Pune Rd., Pimpri, Pune 411018.

Precision Taps & Dies Pvt. Ltd., 17, Gunbow St., Fort, Bombay 400001.

Sang Fasteners, Plot No. A-167, Wagle Estate, Thane 400604.

Sheth Manufg. Works, Rambaug, Vivekanand Rd., Bombay 400064.

Swastik Metal Ind., 168, C.S.T. Rd., Kalina, Bombay 400055.

Punjab

Jagatjit Fasteners Pvt. Ltd., P.B. 20, Kapurthala 144601.

Tamil Nadu

National Fasteners Pvt. Ltd., Developed Plot No. S-19, Industrial Estate, Guindy, Madras 600032.

Needle Ind. (I) Ltd., P.O. Ketti 643215. Nilgiris.

Rambal Pvt. Ltd., Lattice Bridge Rd., P.B. 1101, Madras 600041.

Southern Ind. Corpn. Ltd., 99, Armenian St., Madras 600001.

Sundaram Fasteners Ltd., 37, Mount Rd., Madras 600006.

West Bengal

Agarwal Ind., 1, Bonfield Lane, Calcutta 700001.

Ashok Traders, 2 India Exchange Place, 2nd Fl., Calcutta 700001.

Asoka Mercantile Corpn., 10/1, Ganpat Rai Khemka Lane, Liluah 711204.

Bolts, Nuts and Forging Co., 32, N. Subhas Rd., Calcutta 700001.

Forging & Allied Products, 5/6/2, Dharmatalla Rd., Salkia, Howrah 711106.

Guest, Keen, Williams Ltd., 97, Andul Rd., Howrah 711103.

Howrah Iron & Washers Manufg. Works, 77/13, Benares Rd., Howrah 711001.

India Fasteners, 115, Howrah Rd., P.O. Salkia, Howrah 711106.

Indian Eyelet Ind., 22, B.R.B. Bose Rd., Calcutta 700001.

Khan Pal Chowdhury & Co. Pvt. Ltd., 71/A, N. Subhas Rd., Calcutta 700001.

M. S. Ind., P-10, New Howrah Bridge Approach Rd., Calcutta 700001.

Mahabir Steel Ind., 10/3, Alipur Park Place, Calcutta 700027.

Sajjan Ind. Corpn., P-18, New C.I.T. Rd. (Bina Estate), Scheme LVII, Calcutta 700012.

Saroj Iron & Steel Co. Pvt. Ltd., 85/1, Upper Chitpur Rd., Calcutta 700006.

Shree Krishna Pvt. Ltd., 20, Mangoe Lane, Calcutta 700001.

Shree Lakshmi Iron Co., 222, G. Ghosh Rd., P.O. Belurmath 711202, Howrah Dist.

Standard Screw Ind., 34, N. Subhas Rd., Calcutta 700001.

Steel & Allied Products Ltd., 2/1, Hussain Shah Rd., Calcutta 700023.

Thisa (I.) Pvt. Ltd., E-2, Gillanders House, Calcutta 700001.

FELTS

Feltex India, 29, Muktaram Babu St., Calcutta 700007.

FERRO-ALLOY

Andhra Pradesh

Ferro-Alloys Corpn. Ltd., Shreeramnagar, Srikakulam 532101.

Bihar

Pyrites Phosphates & Chemicals Ltd., Dr. Joseph House, Canal Rd., Dehri-on-Sone 821307.

Karnataka

Electro Metallurgical Works Pvt. Ltd., Dandeli 581325.

Mysore Iron & Steel Ltd., Bhadravati 577301.

Sandur Manganese & Iron Ores Ltd., Lohadri Bhavan, Sandur 583119, Bellary Dist.

Maharashtra

Ferro-Alloys Corpn. Ltd., Post Box 9, Tumsar 441912.

Khandelwal Ferro Alloys Ltd., 79/87, D. Lad Path, Bombay 400033.

Moldex Inds., 187, Dr. D. Naoroji Rd., Bombay 400001.

Tata Iron & Steel Co. Ltd., New India Assurance Bldg., M. Gandhi Rd., Bombay 400023.

Universal Ferro & Allied Chemicals Ltd., Liberty Bldg., New Marine Lines, Bombay 400020.

Orissa

Indian Metals & Ferro Alloys Ltd., Bhubaneswar 751010.

Uttar Pradesh

Indian Thermit Corpn. Ltd., 84/22, Fazalganj, Kanpur 208012.

West Bengal

Siddhartha Ferro Alloys Ltd., Post Box 93, Calcutta 700001.

FERTILISERS

Andhra Pradesh

Andhra Sugars Ltd., Venkatarayapuram, Tanuku 534211, West Godavari Dist.

Bawa Fertilizer Co., 3-6-345/A/1, Bashir Bagh, Hyderabad 500029.

Coromandel Fertilisers Ltd., 126, Sarojini Devi Rd., Secunderabad 500003.

Fertilisers & Ind. Corpn., Main Rd., Nidadavolu 534301, West Godavari Dist.

International Ore & Fertilizer (I) Pvt. Ltd., 66, Rashtrapathi Rd., Secunderabad 500003.

Jayalakshmi Fertilisers, Venkatarayapuram, Tanuku 534211, West Godavari Dist.

Assam

Assam Agro Ind. Development Corpn. Ltd., Ulubari, Gauhati 781007.

Associated Industries (Assam) Ltd. (Chemical-Unit), P.O. Chandrapur 781550, Kamrup Dist.

Firtichem Ltd., Kannachal Rd., Silpukhuri, Gauhati 781003.

Bihar

Chemi Fertilisers, S. P. Varma Rd., Patna 800001.

Pyrites, Phosphates & Chemicals Ltd., Dr. Joseph House, Canal Rd., Dehri-on-Sone 821307, Rohtas Dist.

Delhi

Fertilizer Corpn. of India Ltd., 55, Nehru Place, New Delhi 110024.

Indian Explosives Ltd., Himalaya House, 23, K. Gandhi Marg, New Delhi 110001.

Indian Farmers Fertiliser Cooperative Ltd., 34, Nehru Place, New Delhi 110024.

Japan Urea Centre, 7, Rajendra Place, New Delhi 110008.

Shriram Chemical Ind., Naaz Bldg., 1, Jhandewalan Estate, New Delhi 110055.

Goa

Zuari Agro Chemicals Ltd., P.O. Zuari Nagar 403726.

Gujarat

Adarsh Chemicals & Fertilisers Ltd., Udhna 394210. (Surat Dt.).

Alembic Chemical Works Co. Ltd., Alembic Rd., Vadodara 390003.

Anil Starch Products Ltd., Anil Rd., Ahmedabad 380002.

Chemfert Products & Services, 296, GIDC, M-Pura, Vadodara 390001.

Gujarat Narmada Valley Fertilizer Co. Ltd., Fertilizernagar 391750 (Vadodara Dist.).

Gujarat State Fertilisers Co. Ltd., P.O. Fertiliser Nagar, 391750, Vadodara Dist.

Kisan Bros., A/37, Capital Commercial Centre, Opp. Town Hall, Ahmedabad 380009.

Paushak Ltd., Alembic Rd., Vadodara 390003.

Karnataka

Darshak Ltd., Post Bag 9992, Bangalore 560009.

Mangalore Chemicals & Fertilisers Ltd., 10/2, Kasturba Rd., Bangalore 560001.

Kerala

Fertilisers & Chemicals Travancore Ltd., P. O. Udyogamandal 683501.

South India Chemicals & Fertilisers Ltd., Manorama Bldg., Kottayam 686001.

Madhya Pradesh

Dewas Chemicals & Fertilisers Mfg. Co. Ltd., 148, R. N. Tagore Marg, Chhavani, Indore 452001.

M. P. Agro Morarji Fertilisers Ltd., 170, Ravindranath Tagore Mrg., Indore 452001.

M. P. Chemical Corpn., 78, Navlakha Rd., Sanyogita Ganj, Indore 452001.

Maharashtra

Aries Agro-Vet Industries Pvt. Ltd., 53/54, B. Nand Bhuvan Estate, M. Kaves Rd., Bombay 400059.

Associated Cement Cos. Ltd., Cement House, 121, M. Karve Rd., Bombay 400020.

BASF India Ltd., Marketing Divn., Tiecicon House, Dr. E. Moses Rd., Bombay 400011.

Bharat Fertiliser Ind. Ltd., 12, Nanabhai Lane, Near Flora Fountain, Bombay 400023.

Bharat Laboratory & Biological House for Agriculture, Pandurang Smriti, Jambhale Nagar, Dhule 424001.

Borax Morarji Ltd., 84, Nariman Rd., Bombay 400020.

C. Dhanvantrai & Co., Lentin Chambers, 36, Dalal St., Bombay 400023.

Catalyst (India) Ltd., Chinal Bldg., 79, Y. Meheralli Rd., Bombay 400003.

Chembur Bone & Fertiliser Co. Pvt. Ltd., Darabshaw House, S. Vallabhdas Marg, Bombay 400038.

Deccan Sales Corpn. Ltd., Moray House, 226, S. V. Rd., Bandra, Bombay 400050.

Dewa Fertilisers & Feeds Ltd., Eucharistic Cong. Bldg. 5, Convent St., Bombay 400001.

Dharamsi Morarji Chemical Co. Ltd., Prospect Chambers, 317-21, Dr. D. Naoroji Rd., Bombay 400023.

Fertilizer Corpn. of India Ltd., Trombay Unit, Chembur, Bombay 400074.

Granulated Fertilizers & Feeds Pvt. Ltd., 40, Western India House, Sir P.M. Rd., Bombay 400001.

Harshadray Pvt. Ltd., Jiji House, Ravelin St., Bombay 400001.

Indian Potash Ltd., Mittal Chambers, Nariman Pt., Bombay 400021.

Kamdhenu Chemicals & Fertilisers Ind., 1379, Bhawani Peth, Pune 411002.

Mulchand M. Choksey & Co., 19-21, Hamam St., Bombay 400001.

Pankaj Chemicals & Fertilisers, 211, Samuel St., Vadgadi, Bombay 400003.

Potash Fertilisers Ltd., 6, Lotus Court, J. Tata Rd., Bombay 400020.

Rallis India Ltd., Rallis House, 21, Ravelin St., Bombay 400001.

Rashtriya Chemicals & Fertilisers Ltd., Technical Bldg. Marvali, Chembur, Bombay 400074.

Sepulchre Bros. (I) Ltd., Taj Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Shaw Wallace & Co. Ltd., 3, Walchand Hirachand Mrg., Bombay 400038.

Sunrise Manures & Chemicals, 813-14, Bhavani Peth, Pune 411002.

Voltas Ltd., 19, Graham Rd., Ballard Estate, Bombay 400038.

Orissa

Orissa Fertilisers & Chemicals Ltd., Main Rd. Rourkela 769004.

Punjab

Northern India Fertilisers & Agri. Supply Corpn., 85, Sector 18-A, Chandigarh 160017.

Punjab National Fertilizers & Chemicals Ltd., SCO 54-56, Sector 17-A, Chandigarh 160017.

Tridhara Krishi Sampada Pvt. Ltd., Fertiliser Division, 1290, Sector 21-B, Chandigarh 160017.

Rajasthan

Jeevan Fertilisers & Chemicals Co. Pvt. Ltd., 42, Large Scale Ind. Area, Kota 324003.

Rajasthan State Mines & Minerals Ltd., 133, Saheli Mrg., Udaipur 313001.

Tamil Nadu

Coimbatore Pioneer Fertilisers Ltd., Muthugoundanpudur (Via Sulur) 641402. (Coimbatore Dist.).

E. I. D. Parry (India) Ltd., Dare House, P. B. 12, Madras 600001.

Indian Potash Ltd., 2/3, Pathari Rd., Off Mount Rd., Madras 600006.

Jai Bharat Chemicals & Fertilisers Co., 5/141, Mount Rd., Madras 600006.

Kothari (Madras) Ltd., 20, Nungambakkam High Rd., Madras 600034.

Krishna Ind. Corpn. Ltd., Ramakrishna Bldgs., 38, Mount Rd., Madras 600006.

Madras Fertilisers Ltd., Manali, Madras 600068.

Mysore Fertiliser Co., Andhra Bank Bldg., 6, Linghi Chetty St., Madras 600001.

Peninsular Bone Mill, 28/29, Coral Merchant St., Madras 600001.

Peirce Leslie India Ltd., Race Course Rd., Coimbatore 641018.

Premier Fertilisers Ltd., 151, Mount Rd., Madras 600002.

Samy Fertiliser Co., 55, Sathy Rd., Erode 638001.

Scientific Fertiliser Co. Pvt. Ltd., P. B. No. 744, Ponnurangam Rd., R. S. Puram, Coimbatore 641002.

Southern Petrochemical Ind. Corpn. Ltd., 24, Whites Rd., Madras 600014.

T. Stanes & Co. Ltd., 8-23-24, Race Course Rd., Coimbatore 641018.

Uttar Pradesh

Indian Explosives Ltd., Fertiliser Divn., Post Box 267, Kanpur 208001.

Sahu Chemicals & Fertilisers, Sahupuri, Varanasi 221009.

U. P. State Agro Ind. Corpn. Ltd., 22, Vidhan Sabha Marg, Lucknow 226001.

West Bengal

A. Talukdar & Co. (Fertilisers) Pvt. Ltd., 15, Clive Row, Calcutta 700001.

Assam Fertilisers (Pvt.) Ltd., 12, Burdwan Rd., Calcutta 700027.

Avenue Manures Ltd., 26, Chittaranjan Ave., Calcutta 700012.

B. C. Paul & Co., 18, N. Subhas Rd., Calcutta 700001.

Brahmaputra Fertilisers & Distributors Pvt. Ltd., 2, Church Lane, Calcutta 700001.

Deluxe Chemical Indus., 192, Jamunalal Bajaj St., Calcutta 700007.

Ghosal Banerjee & Co., 23, Strand Rd., Calcutta 700001.

Jardine Henderson Ltd., 4, Clive Row, Calcutta 700001.

Jay Shree Chemicals & Fertilisers, Nanla Bose Rd., Khardah 743155, 24 Parganas Dist.

Khaitan Sons & Co. (Manure) Pvt. Ltd., 26, Chittaranjan Ave., Calcutta 700012.

Mogra Manure & Bone Mills, 5 & 6, Fancy Lane, Calcutta 700001.

Phosphate Co. Ltd., 14, N. Subhas Rd., Calcutta 700001.

R. C. Mitter & Sons, Ramesh Kuthi, 54, R. K. Bose St., Calcutta 700003.

R. N. Chatterjee & Co., 135, Canning St., Calcutta 700001.

Shaw Wallace & Co. Ltd., 4/5, Bankshall St., Calcutta 700001.

Universal Fertiliser Co. Pvt. Ltd., 26/2A, S. B. De St., Calcutta 700012.

FIBRE REINFORCED PIPES

Coromandel Prodorite P. Ltd., 11/12, North Beach Rd., Madras 600001.

FIBREGLASS & FIBREGLASS PRODUCTS

Acropolymers Pvt. Ltd., 13–14, Asaf Ali Rd., New Delhi 110002.

Concord Arai Pvt. Ltd., 13, G. S. T. Rd., Guindy, Madras 600032.

Fibreglass Pilkington Ltd., Bombay-Agra Rd., Thane 400601.

Hindustan Pilkington Glass Works Ltd., Hindustan Bldg., 4, Chittaranjan Ave., Calcutta 700013.

Indoglass Pvt. Ltd., 407, Arun Chambers, Tardeo Rd., Bombay 400034.

J. C. Electricals, Golecha House, Madras 600003.

Jhaveri Thanawala Pvt. Ltd., 47, Tamarind St., Bombay 400023.

Max Inds., 3A, Pollock St., Calcutta 700001.

Rawji Industrial Corpn., 111/115, Kazi Syed St., Bombay 400003.

Sahyadri Enterprises, M. H. Patrawala Ind. Estate, 20, Dr. E. Moses Rd., Mahalaxmi, Bombay 400011.

U-Foam Ltd., Sanathnagar, Hyderabad 500018.

Unique Enterprises, 1, Atladara Ind. Estate, Vadodara 390003.

Vidyut Udyog, 5, Fancy Lane, Calcutta 700001.

VMT Fibreglass Ind., 70, B.R.B.B. Rd., Calcutta 700001.

FIBREGLASS TANKS & REACTION VESSELS

FRP Linings Pvt. Ltd., 206, Arun Chambers, Tardeo, Bombay 400034.

Polyplast, Thakore Estate, Khalai Village, Vidyavihar (West), Bombay 400086.

FILM STRIP PROJECTORS

Andhra Scientific Co. Ltd., Machilipatnam 521001.

FILTERS & FILTER PRESSES

Aquatreat Equipments, 31-3-17, Maruthinagar, Vijayawada 520001.

Brito-Matics (India), C-9, Nand Dham Ind. Estate, Marol, Andheri (E), Bombay 400059.

Candy Filters (India) Ltd., Mahalaxmi Chambers, B. Desai Rd., Bombay 400026.

Crystal Filter Co., 33/1/1, Natabar Paul Rd., Howrah 711101.

Elofic Inds. Pvt. Ltd., Kashmere Gate, Delhi 110006.

Fimcron India Pvt. Ltd., M-97, Greater Kailash, New Delhi 110048.

Fritz & Singh Pvt. Ltd., B-29/B, Kailash Colony, New Delhi 110048.

Gladwyn Engg. Co., Ind. Estate, Shastri Marg, Bombay 400077.

John Fowler India Ltd., Marshall's Bldg., S. Vallabhdas Marg, Bombay 400038.

Kaushik Engg. Co., 111, N. Master Rd., Bombay 400023.

Kirloskar Filters Pvt. Ltd., Kothrud, Pune 411029.

Metals Mfg. Co., Post Box 16215, Bombay 400010.

Navgire & Co., Plot No. C-34, Rd. No. 27, Wagle Estate, Thane 400604.

Otoklin Filters of India, 1006, Prasad Chambers, Near Roxy Cinema, Bombay 400004.

Permanent Papers, 187, S. Devji St., Bombay 400003.

Pharmalab Inds., Star Metal Compd., Agra Rd., Vikhroli, Bombay 400083.

Purolator India Ltd., Hauz Khas, Yusuf Sarai, New Delhi 110016.

Rajaniklal, 32, Park Mansions, Park St., Calcutta 700016.

Reliance Heat Transfer Pvt. Ltd., 46, Veer Nariman Rd., Bombay 400023.

Shanker & Co., Dajiba House, 3rd Khetwadi Lane, Bombay 400004.

Shar-Lee Filtorites Pvt. Ltd., 52, Okhla Ind. Estate, New Delhi 110020.

Shavo Norgren India Pvt. Ltd., 9, Wallace St., Bombay 400001.

Sparkler Eastern Pvt. Ltd., 35, Chittaranjan Ave., Calcutta 700012.

Standard Filter Concern, 18/1, Nilmoni, 12, J. Mohan Ave., Calcutta 700006.

Tak Machinery Ltd., Jolly Maker Chambers No. 2, Nariman Pt., Bombay 400020.

Tenacity Filters Pvt. Ltd., 21/6, Hadapsar Ind. Estate, Hadapsar, Pune 411013.

YO-tana Machine Tools, C-1/10, G.I.C.D., Odhav, Ahmedabad 380021.

FILTER RODS FOR CIGARETTES

Filtrona India Ltd., 31, Murzban Rd., Bombay 400001.

FINS & FINNED TUBES

Nerkar & Associates, 4, Municipal Ind. Estate, Jacob Circle, Bombay 400011.

FIRE FIGHTING EQUIPMENT

Delhi

Delhi Garage Pvt. Ltd., Connaught Place, New Delhi 110001.

DGL Pvt. Ltd., 14-M Block, Connaught Cir., New Delhi 110001.

Indian Engrs., 1/37 Roopnagar, Delhi 110007.

Gujarat

Abdul Samad Abdul Kadar & Sons, 1839, Panchpalli, Kalupur, Ahmedabad 380001.

Newage Ind., Ambawadi Ind. Estate Surendranagar 363001.

Northern Alloys Foundry, No. 69, G.I.D.C., Chitra, Bhavnagar 364001.

Shah Bhogilal Jethalal & Bros., Gheekanta Rd., Near Liberty Cinema, Ahmedabad 380001.

Swastik Ind. Corpn., Udyognagar, Bhavnagar 364001.

Karnataka

Fire & Safety Equipments, 171, Commercial St., Bangalore 560001.

S. Ramu & Bros., 95-G, Dr. A. N. Krishna Rao Rd., Visweswarapuram, Bangalore 560004.

Kerala

Metropolitan Engg. Co., Power House, Trivandrum 695001.

Maharashtra

Anupam & Co., 536A, Netaji Subhas Rd., Mulund, Bombay 400080.

Apollo Fire Fighter, 121/21, S. Devji St., Bombay 400003.

Asia Engg. Co., 39, Nagdevi St., Bombay 400003.

Avon Services (Prod. & Agen.) Pvt. Ltd., Baldota Bhavan, 117, M. Karve Marg, Bombay 400020.

Bharat Pipe & Sanitary Corpn., 67/69, Mohamedali Rd., Bombay 400003.

Bharat Textile Ind., 4th Lane, Darukhana, Bombay 400010.

Bharati Fire Engrs., 3/6, Anupam Ind. Estate, LBS Mrg., Bombay 400080.

Cease Fire Safety Engrs. Pvt. Ltd., Mohamedi House, Mohamedali Rd., Bombay 400003.

Co2 Fyr Fyter Co., 15, Navjivan Soc., Bhadkamkar Marg, Bombay 400007.

Esoofaly Mohamedaly & Co., 102-A, Sarang St., Bombay 400003.

Fire Equip. Corpn., 166, Dr. D. N. Rd., Bombay 400001.

Indian Fire Engg. Co., National Library Bldg., S. Vivekanand Rd., Bombay 400050.

Indian Fire Equip. Corpn., 79, Mohamadi House, Mohamedali Rd., Bombay 400003.

Industrial Com. Corpn., 157, N. Dhuru St., Bombay 400003.

Infire, National Library Bldg., S. V. Rd., Bombay 400050.

Jainco Ind., 64, Nizam St., Bombay 400009.

Joseph Leslie Agencies Pvt. Ltd., Apeejay House, 130, Apollo St., Bombay 400023.

Josh Fire Fighting Equipments Pvt. Ltd., B-6, Ind. Estate, Road A, St. 3, Satpur, Nasik 422007.

Kooverji Devshi & Co. Pvt. Ltd., 105, Arun Chambers, Tardeo Rd., Bombay 400034.

Laxmi Sprinklers, Kalachowki Rd., Bombay 400033.

Mather & Platt Ltd., 8, Graham Rd., Ballard Estate, Bombay 400038.

Minimax Ltd., Janmabhoomi Chambers, W. Hirachand Mrg., Bombay 400001.

National Fire Equip. Co., 11, Bank St., Bombay 400023.

Necet Trading Corpn. Pvt. Ltd., 94, Nagdevi St., Bombay 400003.

New Engg. Corpn., 50, Nagdevi St., Shripal Bhuvan, Bombay 400003.

Oriental Metal Pressing Works Pvt. Ltd., 131, Worli, Bombay 400018.

Peter Autokits P. Ltd., Mathuradas Vasanji Rd., Makvana Lane, Marol Naka, Andheri (E), Bombay 400059.

Pioneer Equipment Co. Pvt. Ltd., Seksaria Chambers, Medows St., Bombay 400001.

Radiant Fire Prot. Engrs., 818, Parekh Market, 39, Kennedy Bridge, Bombay 400004.

Ravi Inds. Pvt. Ltd., Naupada, LBS Mrg., Thane 400602.

Safex Fire Services, 202-A, Dhanraj Ind. Estate, Sun Mill Rd., Bombay 400013.

Supremex Equipments, D-2/A, Ghatkopar Ind. Estate, LBS Mrg., Bombay 400086.

Swastik Industrial Corpn., 19, Hamam St., Bombay 400001.

United Engg. Co., 67-69, Mohamedali Rd., Dada Manzil, Bombay 400003.

Universal Fire Equipment Corpn., 101, Champaklal Ind. Estate, Sion East, Bombay 400022.

Weweld Regulator Co., 33, Shethi Ind. Estate, 10E, Suren Rd., Andheri East, Bombay 400093.

Zenith Fire Services, 127/129, Mody St., Bombay 400001.

Tamil Nadu

Fyrkool Pvt. Ltd., 41, Thambu Chetty St., Madras 600001.

Roberts Mclean & Co. Ltd., 32-B, Greams Rd., Madras 600006.

West Bengal

Annapurna Metal Works, Tijala, Calcutta 700039.

Indian Metal Ind., 9, Bonefield Lane, Calcutta 700001.

K. K. Bose & Co., 27/1B, Simla Rd., Calcutta 700006.

Machine & Mill Stores Corpn. Pvt. Ltd., 76/19, Benaras Rd., Howrah 711101.

Roberts Mclean & Co. Ltd., 27-B, Camac St., Calcutta 700016.

Roysen (Fire Eng.) Pvt. Ltd., 55, Gariahat Rd., Calcutta 700019.

Sur Enamel & Stamping Works Pvt. Ltd., 24, Dr. M. L. Bhattacharya Rd., Entally, Calcutta 700014.

Surex Sales Pvt. Ltd., P-14, C.I.T. Rd., Calcutta 700014.

Zenith Industrial Equipments, 14/1/1A, Jackson Lane, Calcutta 700001.

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ZENITH FIRE SERVICES
Vadhani Industrial Estate. Ghatkopar.
Bombay-400 086. Phone: Off: 583805.
Export Div. 127/129 Mody St. Bombay-1.
Phone: 265416. Grams: 'ZENITHFIRE'
Telex: 011-4062 (INDIA)

FISHING AIDS

Cholamandal Marine Fibres, 13, Mowbray's Rd., Madras 600018.
Chowgule & Co. Pvt. Ltd., Shipbuilding Dn., Bakhtawar, 4th Flr., Nariman Point, Bombay 400021.
East India Trading Co., 2, Church Lane, Calcutta 700001.
Gladstone Lyall & Co. Ltd., 4, Fairlie Place, Calcutta 700001.
Modern Nets Ltd., Chowpatty Chambers, Bombay 400007.

FLASHLIGHTS & TORCH LIGHTS

Flash Light India Pvt. Ltd., 135, Princep St., Calcutta 700013.
Geep Flashlights India Ltd., 28, South Rd., Allahabad 211001.
Metal India Inds., 3, Saki Naka, Bombay 400072.
Sen Bros. Pvt. Ltd., 3, Amartolla St., Calcutta 700001.
Union Carbide India Ltd., 1-3, Brabourne Rd., Calcutta 700001.
United Flashlight Ind. Pvt. Ltd., 14/2, Old China Bazar St., Calcutta 700001.

FOOD PROCESSING & CANNING MACHINERY

A. P. V. Engg. Co. Pvt. Ltd., 2, Jessore Rd., Calcutta 700028.
Larsen & Toubro Ltd., L & T House, Ballard Estate, Bombay 400038.
Mather & Greaves Ltd., Chinchwad, Pune 411019.
Mather & Platt Ltd., 8, Graham Rd., Ballard Estate, Bombay 400038.
Universal Mechanical Works Pvt. Ltd., 112, Lower Parel, Bombay 400013.
Vacuum Plant and Instrument Manufg. Co. Pvt. Ltd., Mundhwa, Pune 411036.
Vitro Pharma Products Pvt. Ltd., 89, Ind. Estate, Kandivli, Bombay 400067.
Vulcan Laval Ltd., Mustafa Bldg., 7-A, Sir P. Mehta Rd., Bombay 400001.

FOODS—FISH & MEAT CANNING

Andhra Pradesh

Fish Products Ltd., Jagannaickpur, Kakinada 533002.
Universal Sea Foods Pvt. Ltd., Sulurpeta 524121.

Goa

Goa Exotic Canners & Freezers, Rue Jose Falcao, Panaji 403001.
Konkan Fisheries Pvt. Ltd., Marmugao 403803.

Karnataka

Coronet Canning Co., Raj Mandir, Malpe, 576118. S. Kanara.
Madonna Frozen Foods, Mukka, Srinivasnagar 574157, South Kanara.

Kerala

Bluewater Fisheries, Edacochin, Cochin 682006.
Canning Ind. (Cochin) Ltd., Trichur 680005.
Choice Canning Co., P.O. Box 325, Cochin 682002.
Coastal Food Packers Factory, Palluruthy, Cochin 682005
Cochin Fish Canning Co., Near Aroor Bridge, Cochin 682006.
Coromandal Fisheries, P.O. Box No. 920, Cochin 682006.
Darlco Canning Ltd., Moospet Rd., Trichur 680005.
Eastern Marine Products, Kuthirapanthy Ward, Alleppey 688001.
Four Seasons Fisheries Co., Edacochin, Cochin 682006.
High Seas Fishing Enterprises, 28/825, Kochupalli Rd., Thoppumpady, Cochin 682005.
India Sea Foods, Thoppumpady, Cochin 682005.
International Fisheries Ltd., Karuvelipady, Cochin 682005.
Island Club Canning Co., Wellingdon Island, Cochin 682003.
Kerala Fisheries Corpn., P. Box No. 1115, Ernakulam, Cochin 682011.
Kerala Food Packers, Nadakadavu, Cochin 682005.
M. K. Fisheries, P. Box No. 1236, Cochin 682011.
Malabar Marines, 14/1455, Thoppumpady, Cochin 682005.
Paramount Fisheries, Thoppumpady, Cochin 682006.
Pothen Joseph & Sons, Chungam, Alleppey 688001.
Sea Food Exporting Co., 634, Pilithottam, Quilon 691006.
Tata Oil Mills Co. Ltd. (Fisheries Div.), Karuvelipadi, Cochin 682005.
West Coast Sea Foods, 18/366, Kochangadi, Cochin 682002.
XL Sea Foods, 27/479-A, Thoppumpady, Cochin 682 005

Maharashtra

A. Kalvert & Co., 90, Mazagon Rd., Bombay 400010.
Castlerock Fisheries (Bombay), Dalamal Chambers, New Marine Lines, Bombay 400020.
Dr. Writers Chocolate and Canning Co., B. Shankar Rd. Bombay 400028.

James Smith & Co., 9-A, Jakaria Bunder Rd., Bombay 400015.

Pure Products & Madhu Canning Ltd., Sion Trombay Rd., Bombay 400084.

Tamil Nadu

Eastern Seafoods Exports Pvt. Ltd., Ennore Coastal High Rd., Madras 600019.

Indo Marine Agencies (Tamil Nadu), 45, M. Labhai St., Madras 600011.

Southern Seafoods Pvt. Ltd., 15, Montieth Rd., Madras 600008.

FOODS—FRUIT & VEGETABLE CANNING

Andhra Pradesh

Govt. Fruit Preservation Factory, Anantharajupeta 516105. Cudappah Dist.

Rai & Sons Pvt. Ltd., Juice Lane, Kukatpalli, Hyderabad 500037.

Salchar Food Products, 35, Panjagatta, Hyderabad 500034.

Sri Venketeshwara Fruit Canning Inds., Nuzvid 521201. Krishna Dist.

Delhi

Ambrosia Food & Canning Ind., 51-B, Rampur Marg Indl. Area, New Delhi 110035.

Bombay Food Products, 5-641, Mehrauli, New Delhi 110030.

Depro Foods Ltd., A-61, Amar Colony, Lajpat Nagar, New Delhi 110024.

Edward Keventers Pvt. Ltd., S. Patel Rd., New Delhi 110011.

Essex Farms Pvt. Ltd., 4, Mehrauli Rd., New Delhi 110030.

Excelsior Food & Chemical Ind., 4, Paharganj Lane, New Delhi 110055.

Food Specialities Ltd., M-5A, Connaught Circus, New Delhi 110001.

Midland Fruit & Veg. Products India Ltd., Okhla Ind. Estate, New Delhi 110020.

Northland Inds., B-47, Rampura Marg, New Delhi 110035.

Rai & Sons (Pvt.) Ltd., 9-A, Connaught Place, New Delhi 110001.

Shalimar Fruit Products, B-50, Rampura Marg, New Delhi 110035.

Goa

Chowgule & Co. Hind Pvt. Ltd., Margao 403601. Goa.

Costa & Co. Pvt. Ltd., P.B. No. 16, Margao 403601.

Goa Exotic Canners & Freezers, Jose Falcao Rd., Panaji 403001.

Goa Food Products Ltd., Margao 403601, Goa.

Monte Da Silva, Rua do Abade Faria, Margao 403601.

Virginkar Food Inds. Pvt. Ltd., Rua Inacio, Loyola, Margao 403601.

Gujarat

Jagdish Fruit Canning Co., Snail Rd., Ranavav 360550, Junagadh Dist.

Roreick & Co. Ltd., Roreick House, Modi South, Nadiad 387001.

Himachal Pradesh

Himachal Pradesh Fruit Canning Unit, Naubahar, Simla 171002.

Mohan Meakin Breweries Ltd., Solan 173212.

Solan Food Products Pvt. Ltd., Solan 173212.

Jammu and Kashmir

Kay Food Preservers & Canners, Moti Bazar, Srinagar 190001.

Tulip Products, Ind. Estate, Barzulla, Srinagar 190001.

Karnataka

Bolsts Indian Condiments Pvt. Ltd., 9, Ashley Park Rd., Bangalore 560001.

Can Can Food Products, 14/1, Srinivasa Colony, Bangalore 560027.

Canara Sea Food Packers, Govt. Ice Factory Bldg., Hoige Bazar, Mangalore 575001.

Food Concentrates (I), B-49, Ind. Estate, Rajajinagar, Bangalore 560010.

Hindustan Canning Co., Marnamikatta Rd., Mangalore 575001.

Kissan Products Ltd., Old Madras Rd., Bangalore 560016.

Kwality Food Products, Mysore Rd., Bangalore 560026.

Madonna Canning Co., Mukka, Surathkal, Mangalore 575001.

Mysore Food Processing & Canning Co., Pvt. Ltd., 70, Charles Campbell Rd., Bangalore 560023.

Sowcar Canning Co., Udyavara, Udipi 576101, South Kanara Dist.

Vita Food Products, Mysore Rd., Bangalore 560026.

Kerala

Ashiana Greens & Foods Ltd., Cannanore 670001.

Darlco Canning Ltd., Moospet Rd., Trichur 680005.

Dessicated Coconut Ind., Thuruthy, Changanacherry 686101.

Kaycee Plantations & Canning Co., High Rd., Trichur 680001.

Midland Fruit & Vegetable Products (India) Ltd., Punalur 691305.

National Dairy & Canning Co., Ltd., Trivandrum 695001.

Parur Canning Ind. Pvt. Ltd., Parur 683513.

Travancore Pineapple Canning Co., Punalur, Quilon Dist.

Maharashtra

A. Kalvert & Co., 90, Mazgaon Rd., Bombay 400010.

Anand Canning Ind. Pvt. Ltd., Regent Chambers, Nariman Point, Bombay 400021.

Asian Dehydrates Ltd., 40, Police Court Lane, Bombay 400001.

Bombay Foods Pvt. Ltd., Khatau Chawl, Haines Rd., Bombay 400011.

Chitale Agricultural Products Ltd., 635/63-64, Vijayanagar Colony, Pune 411002.

Corn Products Co. (I) Pvt. Ltd., Shreenivas House, Waudby Rd., Bombay 400001.

D. & P. Products Pvt. Ltd., Agra Rd., Bhandup, Bombay 400078.

Dr. Writer's Chocolate & Canning Co., B. Shankar Rd., Bombay 400028.

Fruit Farm Products, Byramji Mansion, Sir P. Mehta Rd., Bombay 400001.

Gits Food Products (I), 201, Hadapsar Ind. Estate, Pune 411013.

Harnik Food Ind., 9, Connaught Rd., Pune 411002.

Herbertsons Ltd., Ewart House, Homi Mody St., Bombay 400023.

James Smith & Co., Shrinivas House, Waudby Rd., Bombay 400001.

Jivan Foods Pvt. Ltd., Worli Sea Fact, Bombay 400018.

Konkan Canning Food Products Pvt. Ltd., Fanshi Baug. Near Industrial Estate, Ratnagiri 415612.
M. M. Poonjiajee & Co., 42, First Marine St., Bombay 400002.
Maharashtra Agro Inds. Devlopment Corpn. Ltd., Rajan House, Near Century Bazar, Bombay 400025.
Poona Food Canning Pvt. Ltd., 685/2-C, Poona-Satara Rd., Pune 411019.
Pure Food Products, 41, Nav Nandanvan Ind. Estate, Agra Rd., Bombay 400080.
Pure Products & Madhu Canning Ltd., Sion-Trombay Rd., Bombay 400088.
Ratnakar Canning Ind., Shivajinagar, Pune 411005.
S. D. Fruit Products, 62, Katrak Rd., Bombay 400031.
Sunshine Seafoods Co. Pvt. Ltd., Sangli Bank Bldg., Homji St., Bombay 400001.
Tim Tom Food Products, Shantinagar, Vakola, Bombay 400055.
Triumph Products, B. Shankar Rd., Bombay 400028.
Weikfield Products Co. (I), 116, Koregaon Park, Pune 411001.

Orissa

Orissa Fruit Products Ltd., Ind. Estate, Cuttack 753001.

Punjab

✓ Food Specialities Ltd., Ludhiana-Ferozpur Rd., Moga 142001.
✓ Jullundur Co-op. Canneries Ltd., Jullundur 144001.
✓ Markfed Canneries, P.B. No. 122, Jullundur 144001.

Tamil Nadu

Delican Pvt. Ltd., 100, P. High Rd., Madras 600010.
Dollar Food Corpn., 42, Mount Rd., Guindy, Madras 600032.
Favourite Food Products, 27/3–28, R. Pillai St., Ramavarmapuram, Nagarcoil 629001.
Kodai Fruit Products Co., Indira Anandgiri, Kodaikanal 624102.
Madras Food Products Co. Pvt. Ltd., Ambattur, Madras 600053.
Sri Ganeshram & Co., 46, T. Chetty St., Madras 600001.
Venkatachalam Condiments, 1-2, Pophams, Broadway, Madras 600001.

Uttar Pradesh ✓

A.B.C. Foods, Dr. Sarkar Compound, Delhi Gate, Agra 282002.
Allahabad Canning Co., Bamrauli, Allahabad 211001.
Canners (India) Ltd., A-7, Nirala Nagar, Lucknow 226007.
G. G. Ind., Belanganj, Agra 282001.
Healthways Food Products Co., 86, Factory Area, Kanpur 208001.
Indo-Bulgar Foods, Delhi-Meerut Rd. Indl. Area, Delhi Meerut Rd., Ghaziabad 201001.
Kissan Products Ltd., Rural Indl. Estate, Bhojeepatra, Bareilly 243001.
Kumaon Farm Products, Poplars Mall, Nainital 263001.
Mohan Meakin Breweries Ltd., Mohan Nagar, Ghaziabad 201001.
Spencer & Co. Ltd., G.T. Rd., Kanpur 208001.
Tata Oil Mills Co. Ltd., Ghaziabad 201007.
U.P. Fruit Products Pvt. Ltd., Bara Bazar, Bareilly 243001.
U.P. State Agro-Indl. Corpn. Ltd., Processed Foods Div., 22, Vidhan Sabha Marg, Lucknow 226003.

West Bengal

Alpha Food & Chemical Pvt. Ltd., 142, B. Shah Rd., Calcutta 700053.
Amjadia Food Products Ltd., 7/2, Amratola Lane, Calcutta 700001.
Atlantis (East) Ltd., 41, Chowringhee Rd., Calcutta 700016.
Daw Sen & Co. Pvt. Ltd., 29, S. Sarkar Rd., Calcutta 700014.
Farm & Fruit Products Pvt. Ltd., 71/A, Chakraberia Rd., Calcutta 700020.
Frank Ross & Co. Ltd., Chowringhee, Calcutta 700013.
Imperial Fruit Preserving Co., 35/A, Muraripukur Rd., Calcutta 700004.
I.T.C. Ltd. (Foods Div.), 37, Chowringhee, Calcutta 700016.
James Lord & Sons Ltd., 19, Strand Rd., Calcutta 700001.
Jedys Fruit Preserving Co., 144, Collin St., Calcutta 700016.
Kalyanpur Canning Corpn., C/3, Gillander House, N. Subhas Rd., Calcutta 700001.
Krishna Chandra Dutta Pvt. Ltd., 38, K. K. Tagore St., Calcutta 700070.
Lilly Barley Mills Pvt. Ltd., 19, Muraripukur Rd., Calcutta 700004.
Mays Fruit Ind., 36, Mott Lane, Calcutta 700013.
Mida & Co. Pvt. Ltd., 33, Canning St., Calcutta 700001.
Mitter Sircar & Co., 68, Serpentine Lane, Calcutta 700014.
Reckitt & Colman of India Ltd., B. Roy Rd., Behala, Calcutta 700008.
Sunpick Food Products, 196/C, Ch. Ave., Calcutta 700007.
Tims Products Ltd., Nimta Rd., Belgharia, Calcutta 700056.
Tulip Products Co., 37, Imdadali Lane, Calcutta 700016.
United Chemical Ind., M. N. Kumar Rd., Calcutta 700036.
United Fruit Preserving Co., 31, Mott Lane, Calcutta 700013.

FOODS—PROCESSED

Andhra Pradesh

RTE Processed Food Factory, Nacharam Indl. Area, Hyderabad 501507.

Assam

Fruto's & Co., G.S. Rd., Khanapara, Gauhati 781022.

Delhi

Pure Drinks (New Delhi) Pvt. Ltd., Connaught Lane, New Delhi 110001.

Gujarat

Saras Foods, P.Box No. 25, Nadiad 387001.
Vafa Products, 44, Bombay Shipping Centre, Vadodara 390005.

Himachal Pradesh

Solan Food Products Ltd., Solan Rajgarh Rd., Solan 173212.

Karnataka

Bolsts Indian Condiments Pvt. Ltd., 9, Ashley Park Rd., Bangalore 560001.
Karnataka Agro Inds. Corpn. Ltd., P.O. Box No. 2478, Hebbal, Bangalore 560024.

Maharashtra

Allied Fruit Products, Unit 102, Allied Ind. Estate, M. C. Cross Rd., Mahim, Bombay 400016.

American Dry Fruit Stores, 44-A, C. Patel St., Bombay 400001.

Ardeo, Homelands, Carter Rd., Bombay 400050.

Cadbury Fry (I) Pvt. Ltd., Cadbury House, B. Desai Rd., Bombay 400026.

Canning & Brewing Ind., W-4, M.I.D.C. Indl. Area, Satara 415001.

Dee Bright & Co., 56, Rukiyabai Mansion, St. Mary's Rd., Bombay 400010.

Dr. Writer's Chocolates & Canning Co., Bhavani Shankar Rd., Bombay 400028.

Duke & Sons Pvt. Ltd., 2-A, Khetwadi Main Rd., Bombay 400004.

Hawai Ind., 85, Love Lane, Mazagaon, Bombay 400010.

Herbertsons Ltd., Ewart House, Homi Mody St., Bombay 400023.

Indian Vegetable Products Ltd., Forbes Bldg., C. Rai Marg, Bombay 400001.

K. T. Kubal & Co. Pvt. Ltd., 50, Nimbkar Marg, Bombay 400008.

Ketkar Brothers, D. Harganga Mahal, Khodadad Circle, Bombay 400014.

Merwanjee Poonjiajee & Sons Pvt. Ltd., Poonjiaji Bldg., Princess Dock, Frere Rd., Bombay 400009.

Mody & Co., Engineer Bldg., 265, S. Gandhi Marg, Bombay 400002.

N. M. Poonjiaji & Co., 42, First Marine St., Bombay 400002.

National Fruit Products, Laxmi Bldg., R. Ashar Lane, Bombay 400077.

Pilot Products, 20, Chawl Wadi, Kolbhat Lane, Bombay 400002.

Pure Food Products, 43, Navandawan Ind. Estate, Mulund West, Bombay 400080.

Robert Walter & Co., 85, Motishah Rd., Bombay 400010.

Rogers & Co. Pvt. Ltd., 18, Clare Rd., Bombay 400008.

Shingole Processed Foods Pvt. Ltd., 636/6, Vijayanagar Colony, Pune 411030.

Siqueira & Sons, 121, Fort St., Bombay 400001.

Taj Fruit Products Co., 14/16, M. Ali St., Bombay 400009.

Union Trdg. Co. (Bombay) Pvt. Ltd., 5, Graham Rd., Ballard Estate, Bombay 400038.

United Trdg. Corpn., 141-43, M. Phule Market, Bombay 400001.

✓ V. P. Bedekar & Sons Pvt. Ltd., Mughbat Lane, Bombay 400004.

Tamil Nadu

Cocoa Products & Beverages Ltd., Madras 600089.

West Bengal

Sencose Products, 237-M, Manicktolla Main Rd., Calcutta 700054.

FOODS—PROTEIN

Andhra Pradesh

Modern Proteins Ltd., Plots 1-12, Ind. Estate, Kurnool 518003.

Delhi

Hindustan Milkfood Manufrs. Ltd., Himalaya House, 23, K. Gandhi Marg, New Delhi 110001.

Modern Bakeries (I) Ltd., Vasant Vihar, C-8, Paschim Marg, New Delhi 110022.

Nestle's Products (I) Ltd., Link House, M-5A, Connaught Place, New Delhi 110001.

Gujarat

Kaira Dist. Co-op. Milk Producers' Union Ltd., Anand 388001.

Karnataka

Mysore Snacks Foods Ltd., 19, Platform Rd., Bangalore 560023.

Maharashtra

Britannia Biscuit Co. Ltd., Nirmal, Nariman Point, Bombay 400021.

Cadbury Fry (I) Ltd., Cadbury House, B. Desai Rd., Bombay 400026.

Corn Products Co. (I) Pvt. Ltd., Shreeniwas House, Waudby Rd., Bombay 400001.

✓ Glaxo Laboratories (I) Ltd., Dr. A. Besant Rd., Worli, Bombay 400025.

✓ Hindustan Lever Ltd., 165/166, Backbay Recl., Bombay 400020.

✓ Parle Products Mfg. Co. Pvt. Ltd., North Level Crossing, Vile Parle, Bombay 400057.

Pfizer Ltd., Express Towers, Nariman Point, Bombay 400021.

Roche Products Ltd., 28, Tardeo Rd., Bombay 400034.

Unichem Laboratories Ltd., 22, B. Desai Rd., Bombay 400026.

Wallace Flour Mills Co. Ltd., 9, Wallace St., Fort, Bombay 400001.

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(2) *Jamshedpur :* **P. O. Golmuri, Jamshedpur 831 003.**

Telegraphic Address : " IVAPLEX ".
Bombay Factory Telephone Nos. 379611-2-3-4.
Bombay Office Telephone No. 268081 (20 lines).

Warner Hindustan Ltd., Nirlon House, 254-B, Dr. A. Besant Rd., Bombay 400025.

Punjab

Jagatjit Ind. Ltd., P.O. Jagatjit Nagar 144802. Kapurthala Dist.

Tamil Nadu

Raptakos Brdt. & Co. Pvt. Ltd., 27/39, Velacheri Rd., Madras 600020.

Spencer & Co. Ltd., 153, Mount Rd., Madras 600002.

West Bengal

Brooke Bond (I) Ltd., 9 Shakespeare Sarani, Calcutta 700016.

Lipton (I) Ltd., 9, Western St., Calcutta 700013.

Reckitt & Colman of India Ltd., 41, Chowringhee Rd., Calcutta 700016.

United Flour Mills Co. Ltd., 4, Bankshall St., Calcutta 700001.

FOOTWEAR—LEATHER

Haryana

Liberty Footwear Co., Karnal 132001.

Maharashtra

Ameeta Arts International, Rawji Sojpal Bldg., S. K. Bole Rd., Bombay 400028.

Bombay Footwear Pvt. Ltd., Deonar, Bombay 400088.

Carona Sahu Co. Ltd., 221, Dr. D. Naoroji Rd., Bombay 400001.

Dawood Co., Kerawala Mansion, Carnac Rd., Bombay 400002.

Goldfilled Leather Works, S.Gandhi Marg,Bombay 400002.

Goldwyn Leater Works, Sitaram Bldg., Dr. D. Naoroji Rd., Bombay 400001.

J. J. & Sons, Prarthana Samaj, Bombay 400004.

Libra Footwears Pvt. Ltd., 2-F, Court Chambers, 35, New Marine Lines, Bombay 400020.

Malik Traders, 62, Jolly Chambers No. 2, Nariman Point, Bombay 400021.

S. Parkash & Bros., R. No. 18, 1st Flr., 27, Jamboolwadi, Bombay 400002.

Sarvodaya Women's Indl. Co-op. Soc. Ltd., Amin Nursery, Arthur Rd., Bombay 400034.

Western India Tanneries Ltd., Dharavi, Bombay 400017.

Tamil Nadu

Chrome Leather Co. Pvt. Ltd., P.O. Chromepet 600044. Chingleput Dist.

New Great Shoe Co., 1-C, Naval Hospital Rd., Periamet, Madras 600003.

South East Footwear Pvt. Ltd., 1-C, Naval Hospital Rd., Madras 600003.

United India Shoe Corpn., 18/A, Vepery High Rd., Madras 600003.

Uttar Pradesh

Agra Footwear Co-op. Syndicate, Hing ki Mandi, Agra 282001.

Baluja Footwear Co., Tikonia Bazar, Agra 282003.

Caxton Footwear Co., Shoe Market, Agra 282003.

Premier Shoe Co., Sadar Bhatti, Agra 282001.

Prime Products Ltd., 87/8, Kalpi Rd., P.O. Box No. 80, Kanpur 208001.

Taj Tannery Ltd., Tajganj, Agra 282001.

Upper India Leather Works, 98/88, Nazarabagh, Kanpur 208001.

West Bengal

Bata Shoe Co. Pvt. Ltd., Batanagar 743313.

Bensen Ind., 96, Sri Aurobindo Rd., Salkia, Howrah 711106.

Glace Kid (India) Ltd., 22-1, Gorachand Rd., Calcutta 700001.

National Tannery Co., 1, Middleton St., Calcutta 700016.

P. Bask & Co., 9, Chidam Mudi Lane, Calcutta 700006.

Trot Shoe Co. Pvt. Ltd., 19/4, A, Munshiganj Rd., Calcutta 700023.

FOOTWEAR-LEATHER—INDIAN STYLE

Bata Shoe Co. Ltd., Batanagar 743313, (W. Bengal).

Bombay Footwear Pvt. Ltd., Deonar, Bombay 400088.

Carona Sahu Co. Ltd., 221, Dr. D. Naoroji Rd., Bombay 400001.

Chrome Leather Co. Pvt. Ltd., Chromepet, Madras 600044.

Prime Products Ltd., P.B. No. 80, Kanpur 208001.

Tannery and Footwear Corpn. of India Ltd., 13/400, Civil Lines, Kanpur 208001.

FOOTWEAR—PLASTIC

Delhi

Avon Footwear Ind. Pvt. Ltd., 93-B, Mayapuri Phase I, New Delhi 110027.

Goel Plastics Pvt. Ltd., 2, Ind. Area, Kirti Nagar, New Delhi 110015.

Mohan Enterprises, 1, Ind. Area, Tilak Nagar, New Delhi 110018.

Saco Rubbers Pvt. Ltd., 10, West Ave. Rd., Punjabi Bagh, New Delhi 110026.

SVIK (India), Plot 45/3, Indl. Area Site IV, Sahibabad, New Delhi 110024.

Gujarat

Hindustan Polymers Corpn., C/39/B, Shri Sardar Co-op. Ind. Est., Ajwa Rd., Vadodara 390001.

Maharashtra

Bharat Swiss Footwear Co. Pvt. Ltd., Merchant Chambers, 41, New Marine Lines, Bombay 400020.

Bien Plastics, Govt. Ind. Estate Kandivli, Bombay 400067.

Blow Plast Pvt. Ltd., L. B. Shastri Marg, Bhandup, Bombay 400078.

Carona Sahu Co. Ltd., 221, Dr. D. Naoroji Rd., Bombay 400001.

Chowdhary Enterprises, 203, A to Z Ind. Estate, Fergusson Rd., Lower Parel, Bombay 400013.

Design Engg. Co., 633, Sewree-Wadala Cross Rd., Wadala, Bombay 400031.

Gandhi Ind., Devkaran Mansion, 63, S. Gandhi Marg, Bombay 400002.

Mercantile Plastics Pvt. Ltd., 38, Nandanvan Ind. Estate, Agra Rd., Mulund, Bombay 400080.

National Celluloid Products, 60, C.D. Govt. Ind. Estate, Kandivli West, Bombay 400067.

Pilky Footwear Co., Pvt. Ltd., Churchgate Chambers, New Marine Lines, Bombay 400020.

Ruby Plastic Shapers, 3A, Sidhpura Ind. Estate, Masrani Lane, Kurla, Bombay 400070.

Swastik Inds., Ram Baug, S. Vivekanand Rd., Malad, Bombay 400064.

Swastik Rubber Products Ltd., Swastik House, Behind Khadki Rly. Stn., Pune 411003.

Uttar Pradesh

Foreign Exporters & Manufrs., A/3, Ind. Estate, Loni Rd., No. 2, Opp. Mohan Nagar, Ghaziabad 201001.

FOOTWEAR—RUBBER

Ahuja Rubber Works, 17/13, Guru G. S. Marg, N. Rohtak Rd., New Delhi 110005.

Associated Rubber Ind. Ltd., Bhavnagar 364001.

Bata Shoe Co. Pvt. Ltd., 30, Shakespeare Sarani, Calcutta 700017.

Bhattacharya Rubber Works Pvt. Ltd., Jessore Rd., Calcutta 700055.

British India Corpn. Ltd., Sutherland House, Kanpur 208001.

Carona Sahu Co. Ltd., 221, Dr. D. Naoroji Rd., Bombay 400001.

Enkay India Rubber Co., 156-D, Kamala Nagar, Delhi 110007.

Grover Rubber Ind. Pvt. Ltd., Kottayam 686001 (Kerala).

Lotus Rubber Ind., Marve Rd., Malad, Bombay 400064.

Oriental Rubber Works Ltd., 171-A, M. Gandhi Rd., Calcutta 700007.

FORGINGS & STAMPINGS

Bharat Forge Co. Ltd., Mundhwa, Pune 411036.

Bombay Forgings Pvt. Ltd., Vidyanagri Marg, Kalina, Bombay 400029.

Bombay Metal Forging Works, 5, Udyognagar, S. V. Rd., Goregaon West, Bombay 400062.

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Ellore Engg. Co. Ltd., Thiruneermala Rd., Chromepet, Madras 600044.
Golden Iron & Steel Works, 7/19, Kirtinagar, Ind. Area, New Delhi 110015.
Hakimrai Jaichand Forgings Pvt. Ltd., LBS Mrg., Bhandup, Bombay 400078.
Hanuman Forging Inds., 134/1, M. Gandhi Rd., Calcutta 700007.
Hind Forgings Pvt. Ltd., 53, Netaji Subhas Rd., Calcutta 700001.
India Forgings Co., 4, Black Burn Le., Calcutta 700012.
Indian Metal Inds., 6/11, Jagdish Kunj, R. A. Kidwai Rd., Wadala, Bombay 400031.
Kalyani Steels Ltd., Mundhwa, Pune 411036.
Madras Forgings & Allied Inds. (Coimbatore) Ltd., Mettupalayam Rd., Karamadai 641104. Coimbatore Dist., T. Nadu.
Mechano Forgings, 273/75, Gorapdeo Rd., Mazagaon, Bombay 400010.
Metal Forgings Pvt. Ltd., B-1, Mayapuri Indl. Area, New Delhi 110027.
Monji Shamji & Sons, Tokershi Jivraj Rd., Bombay 400015.
N. Ratilal & Co., Darukhana, Oza Market, Mazagaon, Bombay 400010.
Punjab United Forge Ltd., 324, Sector 9-D, Chandigar, 160009.
Ramnath Metal Forgings, S-29, Ind. Estate, Guindy, Madras 600032.
Renault Forging & Metal Inds., 180, Reay St., Darukhana, Bombay 400010.
Shardlow India Ltd., Huzur Gardens, Sembiam, Madras 600011.
Telac Plants & Equipments Pvt. Ltd., Mount Poonamallee Rd., Ramapuram, Madrss 600089.
Trinity Forgings, Plot No. 43, Block S, Bhosari, Pune 411026.

FORK LIFT TRUCKS

(See under Material Handling Equipment).

FOUNDRY EQUIPMENT & MATERIALS

Bharat Techno Mechanical Industries Pvt. Ltd., Maneklal Rd., Navsari 396445. Bulsar Dist.
Eltron India, B–18, 13 St., No. 9, MIDC, Bombay 400093.
FMC Engg. Works Pvt. Ltd., Sonal Ind. Estate, Off Saki Vihar Rd., Bombay 400072.
Fateh Industries & Stores, 5, New Marine Lines, Bombay 400020.
Foundry Accessories, 7, Hem Prakash, 90/92, Kazi Syed St., Bombay 400003.
Gargi Industries, 2, Mercantile Apartments, Opp. Basant Studio, Chembur, Bombay 400074.
Inductocast Steel Foundries, 14, K. M., Old Madras Rd., Bangalore 560049.
Navin Corpn., 258, Perin Nariman St., 1st Floor, Fort, Bombay 400001.
New Standard Engg. Co. Ltd., Mewar, 40-A, Pedder Rd., Bombay 400026.
Pullman Engg. Co., Rattan Inds. Compd., L.B.S. Mrg., Bhandup, Bombay 400078.
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Eagle Engg. Co., 35, Chittaranjan Ave., Calcutta 700012.
Fuel Injections Ltd., Chitalsara-Manpada, Thane 400601.
Ghadge Inds., 460, Ghorpade Peth, Pune 411002.
Machinery Agencies, 3, Mangoe Lane, Calcutta 700001.
Motor Industries Co., Ltd., Hosur Rd., Adugodi, Bangalore 560030.

FURNACES

Delhi

Simplicity Engrs. Pvt. Ltd., B-99, Mayapuri, New Delhi 110044.

Gujarat

Hindustan Brown Boveri, Ltd., Furnace Dn., P. Box 124, Vadodara 390001.
Indequip Engg. Ltd., Naroda Rd., Ahmedabad 380002.
Pioneer Marketing Services, 432, Badra Rd., Vadodara 390005.

Karnataka

Southern Ind. Furnaces Pvt. Ltd., 613-4, Chamaraja Rd., Mysore 570004.

Kerala

Elheat Furnaces Pvt. Ltd., Major Ind. Estate, Kalamassery 683004.
Kerala Electl. & Allied Engg. Co. Ltd., P.O. Mamala, Cochin 682305.

Maharashtra

Allied Consulting Engg. Pvt. Ltd., Pokar Mansion, 3rd Floor, Near Chembur Stn., Bombay 400071.

Andheri Metal Refinery & Foundry, Chandi Karkhana, Mogra, Andheri (E), Bombay 400069.

Bofco Furnaces Pvt. Ltd., 1-3, Nandu Ind. Estate, Mahakali Caves Rd., Bombay 400093.

Bombay Furnace Co., 1-3, Nandu Ind. Estate, Mahakali Caves Rd., Chakala, Andheri (East), Bombay 400069.

Bombay Furnaces Pvt. Ltd., Stadium House, Nariman Rd., Bombay 400020.

Demak Engg. Co., 101/102, Laxmi Indl. Estate, Off Veera Desai Rd., Andheri West, Bombay 400058.

Eltron (India) Pvt. Ltd., B-18, Giriraj Ind. Estate, Mahakali Caves Rd., Bombay 400093.

Furnace & Foundry Equipment Co., Chandivli Farm, Bombay 400072.

Gansons Pvt. Ltd., 207, Kakad Chambers, Dr. A. Besant Rd., Bombay 400018.

Heatreats Pvt. Ltd., 4-B, Menon Ind. Estate, S. Vivekanand Rd., Bombay 400062.

Heatrite Electricals, 59, Sindhi Socy., Chembur, Bombay 400071.

Hightemp Furnaces Pvt. Ltd., 7/226, Ram Nivas, Sion, Bombay 400022.

Hindustan Brown Boveri Ltd., Brown Boveri House, Dr. A. Besant Rd., Bombay 400018.

Ind. Engg. Works, 48, Tandel St., Bombay 400009.

Indian Furnace Co. Ltd., N.S.E. Estate, Goregaon (East), Bombay 400063.

Kanti Thermo Equipment, 16, Jain Chambers, S. V. Rd., Bandra, Bombay 400050.

Khandelwal Udyog Ltd., Kurla-Kirol Rd., Ghatkopar (W), Bombay 400086.

Killick Ind. Ltd., Killick House, Home St., Bombay 400001.

La Mina Pvt. Ltd., 15, Aghadi Ind. Estate, Marol, Bombay 400059.

La Vulcan Engrs., 66-B, Collectors Colony, Mahul Rd., Chembur, Bombay 400074.

New Standard Engg. Co. Ltd., N. S. E. Estate, Goregaon, Bombay 400063.

Omega Enterprises, 506, Mohatta Mkt., Palton Rd., Bombay 400001.

Sahyadri Udyog, Preet Chambers, 36, Poona-Bombay Rd., Pune 411003.

Sohal Engg. Works, E. Moses Rd., Bombay 400013.

Steel Plant Pvt. Ltd., 250-C, Dr. A. Besant Rd., Bombay 400018.

Therelek Furnaces Pvt. Ltd., A/131, Wagle Ind. Estate, Thane 400604.

Thermotreat, Estate No. 3, Anupam Ind. Estate, L. B. S. Mrg., Mulund (W), Bombay 400080.

Toshniwal Bros. Pvt. Ltd., 198, J. Tata Rd., Bombay 400026.

Vidyut Engg. & Technologies Pvt. Ltd., A-12, Nand Jyot Ind. Estate, Andheri Kurla Rd., Bombay 400072.

Vulcan Engineers Pvt. Ltd., Vulcan Indl. Est., Prabhadevi, Bombay 400025.

Westerwork Engineers Pvt. Ltd., Vulcan Insurance Bldg., V. Nariman Rd., Bombay 400020.

Tamil Nadu

Binny's Engg. Works Ltd., Meenambakam, Madras 600061.

Electro-Mech. Instruments, 49, T. H. Rd., Madras 600019.

Precision Controls, SIET Buildings, 94-B, Mount Rd., Madras 600018.

Southern Furnace Co., 2/130, Mount Rd., Madras 600006.

Thermal Equipments, 2, Lattice Bridge Rd., Adyar, Madras 600020.

Uttar Pradesh

E.M.A. India Induction Heating Co. Pvt. Ltd., 4, Indl. Area, Govindnagar, Kanpur 208006.

West Bengal

Associated Electrical Ind. (India) Pvt. Ltd., 6, Mission Row, Calcutta 700001.

Bengal Enamel Works Ltd., 24, C. R. Ave., Calcutta 700012.

Bengal-Linn (Industrial Furnace) Ltd., 27-B, Camac St., Calcutta 700016.

Cieco Pvt. Ltd., 2/1, B.T. Rd., Calcutta 700050.

Electric Furnace & Transformer Manufg. Pvt. Ltd., J-14, Howrah Ind. Estate, Howrah 711101.

G.W.R. & Co., 89-A, Ballygunge Place, Calcutta 700019

General Electric Co. of India Ltd., Furnace Dn., Magnet House, 6, Chittaranjan Ave., Calcutta 700013.

Hindustan Gas & Ind. Ltd., 22, New Tangra Rd., Calcutta 700046.

Indian Furnace Co. Ltd., 27-B, Camac St., Calcutta 700016.

Jessop & Co. Ltd., 63, N. Subhas Rd., Calcutta 700001.

Kusum Engg. Co. Ltd., 25, Swallow Lane, Calcutta 700001.

Middleton Engg. Co., 12E, Park St., Queens Mansions, Calcutta 700016.

Speeds & Feeds, 7, Lake Rd., Calcutta 700029.

Surendra Engg. Works Pvt. Ltd., 1/A, Vansittart Row, Calcutta 700001.

Wellman Incandescent India Ltd., 8, Harrington St., Calcutta 700016.

Wesman Engineering Co. Pvt. Ltd., 1-2, Allenby Rd., Calcutta 700020.

GARDENING EQUIPMENT

Marchandy Prasad Radha Krishan Prasad Pvt. Ltd., 46, D. Ghosh Lane, Howrah 711101.

Victory Iron Works Pvt. Ltd., P-26, North Banaras Rd., Howrah 711101.

GARMENTS—READY-MADE

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Kaamlee Dresses, Opp. Syndicate Bank, Adoni 518301.

S. G. Dresses, R. B. Bldg., Feelkhana, Hyderabad 500001.

Sri Rama Dress & Co., 22-1-536/1, Noorkhan Bazar Market, Hyderabad 500024.

Srinivasa Dresses, New Municipality Bldg., XX/8-8, Park Rd., Adoni 518301.

Delhi

Anand Trading Corpn., 3152, Ram Bazar, Mori Gate, Delhi 110006.

Anupam Handicrafts, 122/A-21, Gautam Nagar, New Delhi 110049.

Apparels (I.) Pvt. Ltd., P. B. 1668, Delhi 110006.

Asu Traders Pvt. Ltd., 92, G. Nanak Auto Market, K. Gate, Delhi 110006.

Brightway Neckwear Co., Prahlad Market, Karolbagh New Delhi 110005.

Continental Exports, 18/4 Asaf Ali Rd., New Delhi 110002.
Continental Traders, 8941, M. Dhanda, New Delhi 110055.
Elegant Garments, 53/5, D. Gupta Rd., Near Prahlad Market, New Delhi 110005.
Emkay Ind. Corpn., 38, Najafgarh Rd., New Delhi 110015.
Exportos India, Paras Cinema Bldg., Nehru Place, New Delhi 110024.
Fairlene, C-82, Gr. Kailash, New Delhi 110048.
Handicrafts & Handlooms Export Corpn. of India Ltd., Lok Kalyan Bhavan, 11-A, Rouse Avenue Lane, New Delhi 110001.
Indo-Overseas Corpn., 31-G, Nizamuddin (W), New Delhi 110013.
Inter Continent (Travancore) Pvt. Ltd., 11, Scindia House, New Delhi 110001.
Intercraft, 16-A, Narain Indl. Area, Phase II, New Delhi 110028.
Jainco Dresses (Regd.), St. No. 8, Kailash Nagar, Delhi 110031.
Playboy Garments Co., 2/90, Connaught Circle, New Delhi 110001.
S. C. Sharma & Co. Pvt. Ltd., 7-D, Connaught Place, New Delhi 110001.
Suhag Traders Pvt. Ltd., A-23, Mayaapuri Indl. Area (Phase I), New Delhi 110027.
Wings Wear Pvt. Ltd., 1/4, West Patel Nagar, New Delhi 110008.
Zonarc Ties Manufg. Co., C-120, Kirti Nagar, New Delhi 110015.

Gujarat

Evershine, M. R. Colony, Saraspur, Ahmedabad 380018.
Lotus Ind., Udyog Nagar, Rd. No. 3, Udhna 394210.
Mafatlal Apparel Manufg. Co., Kamlagram Rd., Nadiad 387001, Kaira Dist.
Mansukhram Exclusive, Gandhi Rd., Ahmedabad 380001.
Rajindra Dyeing & Printing Mills Ltd., Garment Division, Project Office, Calico Mills, Ahmedabad 380022.

Haryana

Anand Synthetics, 22 Km., Mathura Rd., Faridabad 121003.
Sovrin Knit Works, 20/4, Mathura Rd., Faridabad 121001.

Karnataka

Asha Dresses Co., 306-10, S. Chhatram Rd., Bangalore 560009.
Bangalore Clothing Factory, 53, Nagarthpet, Bangalore 560002.
Bangalore Dress Manufg. Co. Pvt. Ltd., 12, Lalbagh Rd., Bangalore 560027.
Binny Ltd., Garment Factory, Hebbal, Bangalore 560006.
Lalitha Dress Manufg. Co., S. Jubilee Park Rd., Bangalore 560002.
Prakash Dress Manufg. Co., Kempegowda Rd., 3rd Cross, Bangalore 560009.
Pravin Dress Manufg. Co., 25, Oakleypuram, Bangalore 560021.
Swastik Dress Manufg. Co., Seshadripuram, Bangalore 560020.
Wearwell (India) Corpn., 2-B, M. Gandhi Rd., Bangalore 560001.

Madhya Pradesh

Mangalchand Hukmi Chand Ind. (M.P.) Ltd. 2, Free Ganj, Shitlamata Bazar, Indore City 452001.

Maharashtra

Airmaster Clothiers, 285, Frere Rd., Bombay 400001.
Allwin Garments, 436, A/1, Narayanpeth, Near Lokhande Talim, Pune 411030.
Amalgamated Apparels, 28/29, Ideal Estate, Mathuradas Mills Compound, Delisle Rd., Bombay 400013.
Amardeep Dresses, Ashok Nivas, Ranade Rd., Dadar, Bombay 400028.
Amersey Exports Pvt. Ltd., Mathuradas Mills Compound, N. M. Joshi Marg, Bombay 400013.
Apparel Corpn., H. N. Soni Bldg., Sitabuldi, Nagpur 440001.
Asian Clothing Co., Vasant Nivas, Tulsi Pipe Rd., Dadar, Bombay 400028.
Asiatic Dresses, 10, R. Dadaji St., Near Handloom House, Bombay 400001.
Associated Apparel Pvt. Ltd., Rajmahal, 84, V. Nariman Rd., Bombay 400001.
Baby Doll Dress Manufg. Co., 927, Sidheshwar Cloth Market, Solapur 413002.
Brooklyn Corpn., Daver House, 199, Dr. D. Naoroji Rd., Bombay 400001.
Burlington's Exports, Gitanjali Bldg., Off Arthur Bunder Rd., Bombay 400005.
Choudhary Enterprises, 203, A to Z, Ind. Estate, Fergusson Rd., Lower Parel, Bombay 400013.
Climax Apparel, 235, Bazargate St., Bombay 400001.
Continental Apparel Manufg. Co., Mohatta Bhavan, Haines Rd., Worli, Bombay 400018.
Cravatex Ltd., Jolly Maker Chambers No. 2, Nariman Point, Bombay 400021.
Dawn Mills Co. Ltd., Fergusson Rd., Bombay 400013.
Dilip Trading Co., 5, Shamshet St., Bombay 400003.
Eves Apparel, 4/5, Akash Deep, Opp. Rly. Crossings, Zakeria Bunder Rd., Sewree, Bombay 400015.
Excel Wear, Allied Silk Mills Compound, 111-113, Dr. Nariman Rd., Bombay 400025.
Fashion Productions, Arvind House, Quay St., Near Sewree Police Station, Reay Rd., Bombay 400010.
Fit-Well Garments, 307, Brindaban Bhavan, Dadyseth Agiary Le., Bombay 400002.
Fortune Apparels Pvt. Ltd., 107, Adhyaru Ind. Estate, Sun-Mill Comp., Lower Parel, Bombay 400013.
Garment Enterprises Ltd., Swan Mills Comp., T. Jivraj Rd., Sewree, Bombay 400015.
Garments (Export) Manufg. Co., 22C, Ghatkopar Ind. Estate, L. B. Shastri Marg, Ghatkopar, Bombay 400086.
Giriraj Textile Ind. Pvt. Ltd., 107, Churchgate Chambers, New Marine Lines Rd., Bombay 400020.
Goodwill Tie Works, 247, Nagdevi St., Bombay 400003.
Hakoba Pvt. Ltd., 95, V. Patel Rd., C.P. Tank, Bombay 400004.
Handloom (India) & Garments Ind. Pvt. Ltd., 59, V. B. Gandhi Mrg., Bombay 400023.
Hindustan Apparel Ind., Hindustan House, Rd. No. 22, Wagle Ind. Estate, Thane 400604.
Hindustan Dresses, 22, M. Phule Peth, Pune 411002.
Hiralal Gulabchand, 40/41, Ashok Chambers, 56, Broach St., Bombay 400009.
Indian Apparels, Bandra Liberty Co-op. H.S. Ltd., Hill Rd., Bandra, Bombay 400050.
Indo-Bombay Apparel Traders, Balaram Bhuvan, Grant Rd., Bombay 400007.

Interlink Traders Pvt. Ltd., 121, Masjid Bunder Rd., Bombay 400003.

International Clothing Industries, Shirt House, 87, Ind. Estate, Kandivli (West), Bombay 400067.

J. K. (Bombay) Ltd., J. K. Bldg., N. Morarji Marg, Bombay 400038.

Jai Bharat Dress Manufg. Co., 22, Dhobi Gali, Bombay 400004.

Janta Clothing Co., Faizal Bldg., Jail Rd., East, Near Habid Hospital, Dongri, Bombay 400009.

Jubilee Clothing Co., 415, Bhadkamkar Marg, Bombay 400004.

Jubilee Tie Works, 74/80, S. Devjee St., Bombay 400003.

Kalpana Dresses, 1, Jaigopal Ind. Estate, Bhavani Shankar Cross Rd., Dadar, Bombay 400014.

Kamal Brassiers Manufg. Co., 215, Falkland Rd., Bombay 400004.

Kaymore Garments, Bank of Maharashtra Bldg., Laxmi Rd., Pune 411002.

Laffans (I.) Exports Pvt. Ltd., 21/23, V. Nariman Rd., Bombay 400001.

Lalan Readymade Manufrs., 6th Ash Lane, Dadar (W.R.), Bombay 400028.

Liflin Wear, 222, Jaigopal Ind. Estate, B. Shankar Cross Rd., Dadar, Bombay 400028.

Literate Wear, 99, Bhuta Sanghvi Estate, New Nagardas Rd., Andheri East, Bombay 400069.

Lucknow Arts Pvt. Ltd., Purshottam Bldg., Opera House, Bombay 400004.

Mafatlal Apparel Manufg. Co., Mafatlal Centre, Nariman Pt., Bombay 400021.

Manoj Dress Manufg. Co., 478, Budhwar Peth, Pune 411002.

Mansukh Dress Manufg. Co., 350, Budhwar Peth, Pune 411002.

Marshal A & R Engineers, 204, Auto Commerce House, Kennedy Bridge, Bombay 400007.

Merry Maid Manufg. Co., Ishwar Mansion, Opp. Cama Baug, 52, New Charni Rd., Bombay 400004.

Metropolitan Apparels, K. Lekhraj Bldg., L. Tilak Rd., Bombay 400003.

Milton's Pvt. Ltd., Mathuradas Mills Comp., N. M. Joshi Marg, Lower Parel, Bombay 400013.

Modern Drapers, York House, Colaba Causeway, Bombay 400005.

Newlook Brassier Co., 204-J, Shanker Shet Rd., Bombay 400004.

Noble Garments, 482/83, Budhwar Peth, Pune 411002.

Pan Clothing Factory, C-9, Shri Ram Ind. Estate, 131, Katrak Rd., Wadala, Bombay 400031.

Paradise Clothing Co., 153, S. V. Patel Rd., Bombay 400004.

Paragon Dress Manufg. Co., 1029/2, Sadashiv Peth, Laxmi Rd., Opp. Vijay Talkies, Pune 411030.

Parekh Garments, 137, Jaigopal Ind. Estate, Bhawani Shankar Cross Rd., Dadar, Bombay 400028.

Paville Fashions Pvt. Ltd., Paville House, Veer Savarkar Marg, Bombay 400025.

Pearl Products, Jaigopal Ind. Estate, Unit No. 133, B. Shankar Cross Rd., Dadar, Bombay 400028.

Popular Dress Manufg. Co., Ashok Nivas, Ranade Rd., Bombay 400028.

Prasad Garments, 1138, Sadashivpeth, Opp. Shivaji Mandir, Pune 411002.

Prince Garments, 894, Raviwar Peth, Near Daruwala Bridge, Pune 411002.

R. R. Apparel Manufg. Co., 314, Hind Rajasthan Ind. Estate, Naigaum Cross Road, Wadala, Bombay 400031

Rajkamal Dresses, 1105, Raviwar Peth, Pune 411002.

Rallis India Ltd., Ralli House, 21, Raveline St., Bombay 400001.

Readywear Dress Manufg. Co., 172, Budhwar Peth, Belbaug Chowk, Pune 411002.

Riviera Apparels Pvt. Ltd., 18, Lalwani Indl. Est., Bombay 400031.

Sainara Apparel, Dady Seth House, 44, C. Patel St., Bombay 400001.

Sangam Dresses, 83/85/87, Keshav Bhavan, Khetwadi Back Rd., 7th Lane, Bombay 400004.

Selection Wear, 105, Jaigopal Ind. Estate, B. Shankar Cross Rd., Dadar, Bombay 400028.

Shringar Dress Manufg. Co., 361, Budhwar Peth, Pune 411001.

Sona Apparel, 215-A, R. M. Roy Rd., Bombay 400004.

Sona Dress Manufg. Co., 480, New Kasba Peth, Pune 411001.

Standard Safety Apparel, Champaklal Indl. Est., Sion, Bombay 400022.

Star Ind., Court House, 298, Carnac Rd., Bombay 400002.

Styled Apparels, Elar Bldg., 411, Ashiana Indl. Est., Bombay 400025.

Supreme Apparel Manufrs., 72, Champa Gally, Bombay 400002.

Swastik Manufg. Co., 453, Duncan Rd., Bombay 400004.

Tee-Nees Garments Manufg. Co., 208, Shiv Darshan Shopping Centre, M. Gandhi Rd., Santa Cruz East, Bombay 400054.

Todi Inds. Pvt. Ltd., Todi Estates, Sun Mill Compound, Bombay 400013.

Trimfit Corpn., Medows House, Medows St., Bombay 400023.

Turel Garments, Turel Terrace Rd. No. 8, Bombay 400014.

United Garment Manufg. Co., 3/24, Kamal Mansion, Arthur Bunder Rd., Bombay 400005.

Usha Garments Manufg. Co., 306, Jolly Bhuvan, 10, New Marine Lines, Bombay 400020.

Vanguard Dresses, 5 & 6, Shastri Bldg., 41, Gokhale Rd., Dadar W. Rly., Bombay 400028.

Variety Wear, 94, Raviwar Peth, Pune 411002.

Vibgyor Textiles Internationals, Kusum Terrace, 7, Walton Rd., Colaba Causeway, Bombay 400039.

Victor Apparel Pvt. Ltd., 142-C, N. M. Joshi Marg, Parel, Bombay 400013.

Wearwell Garments, Room No. 408, 4th Fl., Hind Rajasthan Bldg., D. S. Phalke Rd., Bombay 400014.

Western Garments Manufg. Co., 308/312, Hind Rajasthan Ind. Estate, Naigaum Cross Rd., Bombay 400031.

Wings Wear Pvt., Ltd., 7-A, Ramachandra Bldg., 280, Carnac Rd., Opp. G.T. Hospital, Bombay 400002.

Punjab

Amber Inds. Pvt. Ltd., The Mall, Ludhiana 141001.

India Woollen Textile Mills Pvt. Ltd., G.T. Rd., Chheharta, 143105, Amritsar Dist.

Tamil Nadu

Asian Apparels, 81/82, Pondy Bazar, T. Nagar, Madras 600017.

Chellaram Garments Pvt. Ltd., 181/182, Mount Rd., Madras 600002.

Coromandel Garments Ltd., Ind. Estate, Plot No. 21, Ambattur, Madras 600058.

Garments International, 2nd Fl., 19-A, Woods Rd., Madras 600002.

Goyal's Dresses, 109, Mount Rd., Madras 600018.

Kiddies Corner, 175/1, Mount Rd., Madras 600002.

Lakme Garments, 31/2, S. Naicken St., Madras 600007.

Madras Clothing Co., No. 21, Bobegan Sahib St., Mount Rd., Madras 600002.

Madras Garments, 55, Armenian St., Madras 600001.

T. S. Hajee Moosa & Co., 95, Godown St., Madras 600001.

Zoro Garments Pvt. Ltd., 1/43, Broadway, Madras 600001.

Uttar Pradesh

Acme Wears Pvt. Ltd., C-94/1, Ind. Area, Bulandshahr Rd., Ghaziabad 201001.

West Bengal

Bagrees Pvt. Ltd., 201-B, M. Gandhi Rd., Calcutta 700007.

J. J. Exporters Ltd., 4, Govt. Place North, Calcutta 700001.

Kabra Clothing Corpn., 174-A, J. Bajaj St., Calcutta 700007.

Kamlalaya Exports Pvt. Ltd., 14, Ballygunge Station Rd., Calcutta 700019.

Mercantile Corpn., 6/1, Sudder St., Calcutta 700016.

Poddar Dress Manufg. Co., 154, J. Bajaj St., Calcutta 700007.

Radhakrishan Sagarmull, 63, G. T. Rd. (South), Howrah 711101.

United Engg. Corpn., 72, Canning St., Calcutta 700002.

GAS CYLINDERS

Bharat Eng. Works (India), 10, Marine Chambers, 43, New Marine Lines, Bombay 400020.

Hyderabad Allwyn Metal Works Ltd., Sanatnagar, Hyderabad 500018.

GAS FITTINGS & WELDING RODS

Durga Gas Appliances, 11, Second St., Nehru Nagar, Adyar, Madras 600020.

Escee Kitchenaid, Shreenivas House, 98, Dattaram Lad Marg, Kalachowki, Bombay 400033.

Maheshwari Indl. Corpn., Sarafa, Meerut City 250001.

Natural Gas Co. Pvt. Ltd., Mehta Chambers, 13, Mathew Rd., Bombay 400004.

GAS LAMPS, MANTLES — LANTERNS

Fargo Mantle Works Pvt. Ltd., Ramchandra Lane, Malad West, Bombay 400064.

Optimohur Ind. Pvt. Ltd., Manu Mansion, 16, S. B. Singh Rd., Bombay 400023.

(See 'Lantern & Stoves' in this list).

GAS PLANTS

Burn & Co. Ltd., Howrah Iron Works, Howrah 711101.

Indigenous Engg. Co. Pvt. Ltd., 89-B, Shakespeare Sarani, Calcutta 700017.

Industrial Cryogenic & Chemical Plants, 15, G.C. Ave., Calcutta 700013.

Mansfield Oil Gas Co. Ltd., 16, R. Chowdhury Rd., Calcutta 700015.

Mechanical Machinery Makers Pvt. Ltd., 67, Ekdalia Rd., Calcutta 700019.

Octagon Inds., Govt. Indl. Estate, Corlim, Ilhas, Goa, 403110.

Otto India Pvt. Ltd., 10, Middleton Row, Calcutta 700071.

SF India Ltd., 46C, Chowringhee Rd., Calcutta 700016.

GASES

Andhra Pradesh Indl. Gases Ltd., Flat 26, 5-9-250, Abid Rd., Hyderabad 500001.

Asiatic Oxygen Ltd., Virgonagar, Bangalore 560049.

Bombay Gas Co. Ltd., Empire House, 214, Dr. D. Naoroji Rd., Bombay 400001.

Cryogenics India Ltd., 7A, Indl. Area, Site 4, Sahibabad, New Delhi 110024.

Hindustan Gas & Ind. Ltd., 10, Camac St., Calcutta 700017.

Hindustan Oxygen & Acetylene Co., G.T. Rd., Giani Border, New Delhi 110032.

Hindustan Oxygen Gas Co. Ltd., Narayan Bhuvan, Waghela Marg., Khanpur, Ahmedabad 380001.

Indian Oxygen Ltd., Oxygen House, P-34, Taratalla Rd., Calcutta 700053.

Industrial Oxygen Co. Pvt. Ltd., Jolly Maker Chambers 2, Nariman Pt., Bombay 400021.

Karnataka Oxygen Ltd., Whitefield Rd., Bangalore 560048.

Kolhapur Oxygen & Acetylene Pvt. Ltd., 2095, 'E' Ward, Near Tembalai Hill, Kolhapur 416005.

Meena Air Products Ltd., 129, Jolly Maker Chambers No. II, Nariman Point, Bombay 400021.

Powergas India Ltd., 254-D, Dr. A. Besant Rd., Worli, Bombay 400025.

Rathi Gases Ltd., 3–A, Vandhana, 11, Tolstoy Marg., New Delhi 110001.

Sirdar Carbonic Gas Co. Ltd., Connaught Rd., Bombay 400033.

Southern Gas Ltd., Govind Poy House, Margao (Goa) 403601.

Sri Ramakrishna Oxygen Ltd., Karamadai, Coimbatore 641104.

GASKETS

Allied Hydro Pneumatic Equipment, 2A, Banaji St., Bombay 400001.

Ambika Traders, 43, Nagdevi X Lane, Bombay 400003.

Asbestos Gaskets & Jointings Co., "JK" Chambers, 78/83, Nagdevi St., Bombay 400003.

Automat Inds., 62, Adarsh Estate, Rakhial, Ahmedabad 380021.

Bharat Auto & Oil Inds., 10, Proctor Rd., Bombay 400007.

Coronet Manufg. Co., 111A, Moreland Rd., Bombay 400008.

Cypher Engg. Co., 19AB, Nandanvan Ind. Est., Thane 400601

Dikson & Co., 8, Bharat House, Apollo St., Bombay 400023.

Gaskets & Radiators Pvt. Ltd., Tamarind House, Tamarind St., Bombay 400001.

Indl. & General Products, 12/13, Angappa Naicken St., Madras 600001.

Intech Engrs. Pvt. Ltd., 16, Hindustan Park, Calcutta 700029.

Modern Gasket Mfrs., 13, Tandel St., Dongri, Bombay 400009.

Payen Talbros Ltd., 16, Shivaji Marg, New Delhi 110015.

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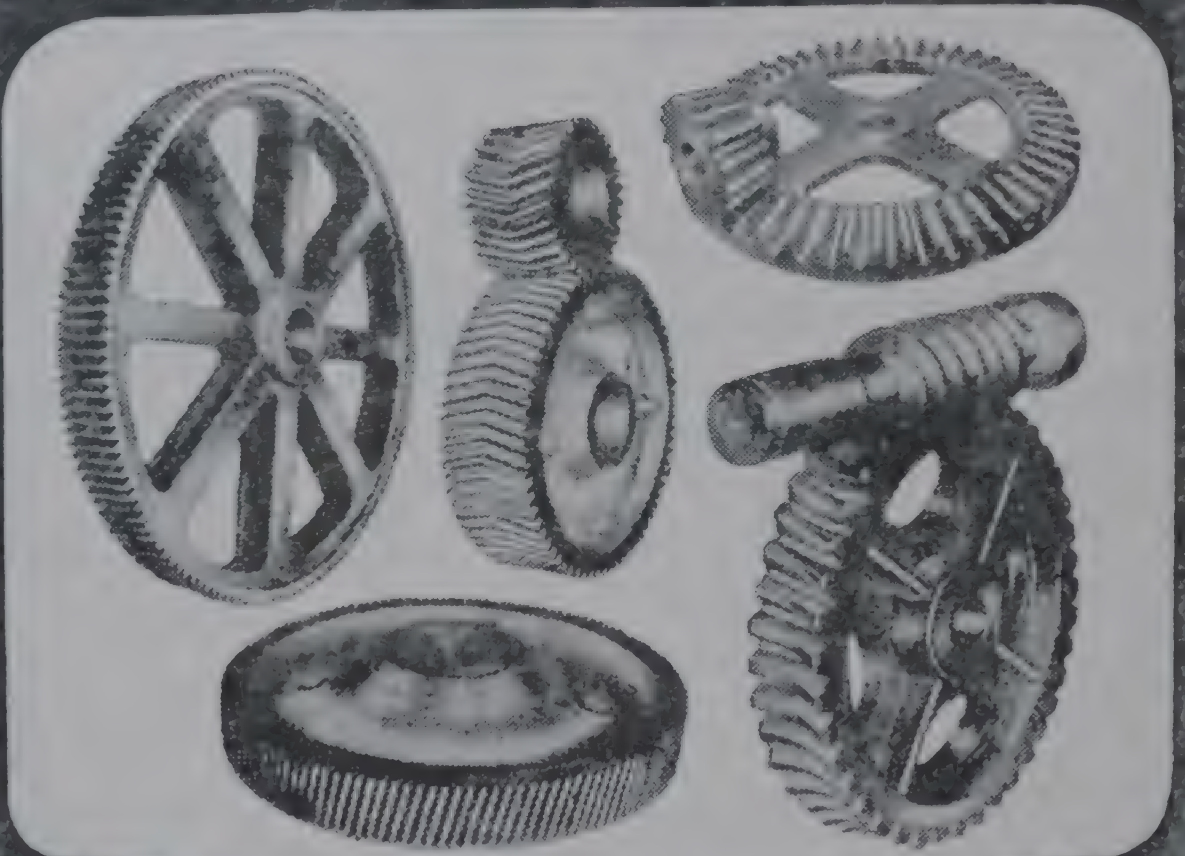

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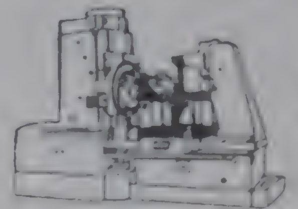

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Southern Equipment Corpn., 22, Purushothama Mudaliar Rd., Madras 600034.

Victor Gaskets (I) Ltd., Agra Rd., Mulund (W), Bombay 400080.

GASKETS—BOILER

Industrial Minerals and Mill Stores, Mercantile Bldgs., Lall Bazar, Calcutta 700001.

GEARS, GEAR BOXES & GEARED MOTORS

Delhi

Bajrang Engg. Works, B-51, Ind. Area, G. T. Karnal Rd., Delhi 110033.

Cutler-Hammer India Ltd., 801, Akash Deep, Connaught Lane, New Delhi 110001.

D. D. Gears Pvt. Ltd., 28, Motiakhan, Jhandewalan Rd., New Delhi 110055.

Flender Macneill Gears Ltd., E Block, Connaught House, Conn. Place, New Delhi 110001.

Gear Reduktor Pvt. Ltd., 235, Okhla Ind. Estate, New Delhi 110020.

Gopal Engg. Works, 76A, Rani Jhansi Rd., New Delhi 110055.

Krishna Engg. Works, 8712–13, Aram Ganj, Roshanara Rd., Delhi 110007.

Gujarat

Climax Ind., Gondal Rd., Rajkot 360002.

Elecon Engg. Co. Ltd., Vallabh Vidyanagar 388120.

Indequip Ltd., Reid Rd., Ahmedabad 380002.

Power Build Pvt. Ltd., Vallabh Vidyanagar 388120.

Haryana

New Allenberry Works, 14/7, Mathura Rd., Faridabad 121001.

Karnataka

Craft Tools Pvt. Ltd., B1/2, Ind. Estate, Harihar 577601.

Madhya Pradesh

Gajra Gears, Dewas 455001.

S. & H. Gears Pvt. Ltd., Stn. Rd., Dewas 455001.

Maharashtra

Afco Ltd., A to Z Ind. Estate, Bombay 400013.

Associated Engg. Works, A/7A, Ghatkopar Ind. Estate, L.B.S. Mrg., Bombay 400086.

Auto Mughals Pvt. Ltd., Jolly Macker Chamber No. 1, Nariman Pt., Bombay 400021.

Bharat Gears Ltd., Express Towers, Nariman Point, Bombay 400021.

Bright Power Drives Corpn., 121, M. Gandhi Rd., Bombay 400023.

Britex Ind., 11, Noble Chambers, Ghogha St., Bombay 400001.

C. K. P. Engg. Works, 111, Ardeshir Dady St., Bombay 400004.

Communications & Power Equipment Co. Ltd., Ind. Estate, Lalbagh, Bombay 400012.

David Brown Greaves Pvt. Ltd., 1, Forbes St., Bombay 400001.

Dee-Kay Gears, Lake Rd., Bhandup, Bombay 400078.

Emvee Engg. Works, 384, V. Savarkar Marg, Bombay 400025.

Gajra Bevel Gears Ltd., Elve Chambers, Green St., Bombay 400023.

Gala Gears, 238, Nandanvan Ind. Est., Shastri Marg, Thane 400604.

Ghatge Patil Ind. Pvt. Ltd., Uchagaon, Kolhapur 416002.

Indian Standard Metal Co. Ltd., Rahimtoola House, Homji St., Bombay 400001.

Kala Silk Engg. Pvt. Ltd., Veena Dalwai Indl. Estate, Vivekanand Rd., Jogeshwari, Bombay 400060.

Kirloskar Pneumatic Co. Ltd., Hadapsar Ind. Estate, Pune 411013.

Marshall Engg. Works, Marol M.I.D.C., Plot No. 94, St. No. 16, Mahakali Rd., Andheri East, Bombay 400093.

Meccano Machinery Mfg. Co., 19, Arun Chambers, Tardeo Rd., Bombay 400034.

Menon & Menon Pvt. Ltd., Vikramnagar, Kolhapur 416005.

Modern Gear Mfrs., 26, Nanik Nivas, Benham Hall Lane, Bombay 400004.

Moulds & Dies Pvt. Ltd., Sunderbaug Estate, Agra Rd., Bombay 400070.

Perfection Gear Mfg. Co., A-46, Royal Optical Indl. Estate, Naigaum X Rd., Bombay 400031.

Popular Industries, A-40, Wagle Indl. Estate, Thane 400604.

Precision Gears Pvt. Ltd., Tiecicon House, Haines Rd., Bombay 400011.

Premier Engg. Corpn., 265, Shahid Bhagatsingh Rd., Bombay 400023.

Prime Engg. Works, A-13, Road 22, Wagle Ind. Estate, Thane 400604.

Ramon & Demm Ltd., S. Vivekanand Rd., Thane 400607.

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Bombay 400 063.

Phones : *Office* : 355189 ; *Factory* : 696270.

Remi Group, 14, Shah Ind. Estate, V. Desai Rd., Andheri West, Bombay 400058.

Supreme Ind. Works, 196-K., Gaiwadi, Girgaum Rd., Bombay 400004.

Teknoworks (India), L. B. Shastri Marg, Bhandup, Bombay 400078.

Walchandnagar Ind. Ltd., Walchandnagar 413114.

Punjab

Majestic Gears Ltd., C-48/51, Focal Point, Ludhiana 141010.

Sethi Industries, Tanda Rd., Jullundur 140004.

Tamil Nadu

Earnest Engg. Ind., 2/124, P. N. Palayam, Coimbatore 641018.

Gears India (Madras) Pvt. Ltd., B-1, Ind. Estate, Guindy, Madras 600032.

West Bengal

Arthur Bagree & Co. (India), 40, Strand Rd., Calcutta 700001.

Bose Ind. Pvt. Ltd., 32, S. C. Chatterjee St., Belurmath 711202.

Calicut Engg. Works Pvt. Ltd., 1/2B, Khagendra Chatterjee Rd., Calcutta 700003.

Deepak Ind. Ltd., 16, Hare St., Calcutta 700001.

Flender Macneil Gears Ltd., 2, Fairlie Place, Calcutta 700001.

Indian Switchgear Corpn., Post Box 9022, Calcutta 700016.

New Allenberry Works, 62, Hazra Rd., Calcutta 700019.

GENERATORS

Delhi

Bharat Heavy Electricals Ltd., Hindustan Times House, 18-20, K. Gandhi Marg, New Delhi 110001.

General Commercial Corpn. (Delhi), 3575, N.S. Marg, Darya Ganj, New Delhi 110002.

Kinetics Technology India Ltd., Meghdoot, 5th Floor, Nehru Place, New Delhi 110024.

Trading Engineers (International) Pvt. Ltd., C-42, Wazirpur Ind. Area, Delhi 110052.

Gujarat

Jyoti Ltd., Ind. Area, Vadodara 390003.

Karnataka

Kirloskar Electric Co. Ltd., Ind. Suburb, Rajaji Nagar, Bangalore 560010.

Madhya Pradesh

Heavy Electricals India Ltd., P.O. Piplani, Bhopal 462021.

Maharashtra

Asea Ltd., Asea House, Goa St., Bombay 400001.

Elmot Engg. Co. Pvt. Ltd., 2 Udyognagar, S. V. Rd., Goregaon West, Bombay 400062.

Emco Electric (Pvt.) Ltd., 94, Medows St., Bombay 400023.

Khandelwal Udyog Ltd., Kurla-Kirol Rd., Ghatkopar (W), Bombay 400086.

National Electrical Ind. Ltd., Ind. Estate, Lalbaugh, Bombay 400012.

Punjab

Beegee Corpn., 25, Factory Area, Patiala 147002.

Tamil Nadu

Power Centre Pvt. Ltd., 159 B, Mount Rd., Madras 600002.

West Bengal

Beni Ltd., 1, Crooked Lane, Calcutta 700001.

Indian National Diesel Engine Co. Ltd., 6, Little Russell St., Calcutta 700071.

J. Stone & Co. (I) Pvt. Ltd., 16, New Taratolla Rd., Calcutta 700027.

Motor & Machinery Manufrs. Ltd., 10, Jawpur Rd., Calcutta 700030.

GLASS, GLASS APPARATUS, AMPOULES & VIALS

Andhra Pradesh

Associated Glass Industries Ltd., Varadanagar, Kukatpally, Hyderabad 500018.

Mahalakshmi Glass Works Pvt. Ltd., Sanatnagar, Hyderabad 500018.

Bihar

Seraikella Glass Works Pvt. Ltd., Kandra 832402, Singhbhum Dist.

Delhi

Amar Glass Works, 473, Rampura Marg, New Delhi 110035.

Atul Glass Inds. Pvt. Ltd., 3/9, D. B. Gupta Rd., New Delhi 110055.

Bawa Glass Co., Fatehpuri, Delhi 110006.

Hindustan Safety Glass Works Pvt. Ltd., 6511, Fatehpuri, Delhi 110006.

National Glass Factory, Indl. Area, Shivaji Marg, New Delhi 110015.

Sylvania & Laxman Ltd., 68/2, Najafgarh Rd., New Delhi 110015.

Gujarat

Alembic Glass Industries Ltd., Alembic Rd., Vadodara 390003.

Sarabhai Glass, P. B. 144, Subhanpura, Vadodara 390001.

Shree Vallabh Glass Works Ltd., Anand-Sojitra Rd., Vallabh Vidyanagar 388120.

Haryana

Hindustan National Glass & Industries Ltd., Bahadurgarh 124507.

Hindustan Vacuum Glass Ltd., Faridabad 121001.

Karnataka

Alembic Glass Industries Ltd., Whitefield 562136, Bangalore Dist.

Bengal Electric Lamp Works Ltd., Old Madras Rd., (13th Mile), Bangalore 560049.

Mysore Crystal Glass Industries, Tannery Rd., Nagavara, Bangalore 560006.

Mysore Glass & Enamel Works Ltd., Science Institute, Bangalore 560012.

Kerala

Travancore Ogale Glass Manufg. Co. Ltd., Kalamassery, Alwaye 683104.

Maharashtra

Ajay Glassware Pvt. Ltd., Mehra Estate, LBS Marg, Vikhroli, Bombay 400079.

Ajit Glass Works Pvt. Ltd., 8, Vivekananda Rd., Jogeshwari, Bombay 400060.

All India Glass Works Pvt. Ltd., 111, Bhandari St., Bombay 400003.

Ambika Glass Works, Opp. Electric Sub-Station, Kolshet Rd., Thane 400601.

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Asha Glass Works, New Anant Bhuvan, 257/265, N. Natha St., Bombay 400009.

Bharat Glass Works, Chembur, Bombay 400071.

Bombay Glass Works Pvt. Ltd., Manmala Tank Rd., Mahim, Bombay 400016.

Borosil Glass Works Ltd., 44, Maulana Abdul Gaffar Rd., Bombay 400018.

Crystal Glass Works Pvt. Ltd., Ghodbunder Rd., Bombay 400060.

Eagle Vacuum Bottle Manufg. Co. Pvt. Ltd., 144/46, S. Devji St., Bombay 400003.

Empire Dyeing & Manufg. Co. Ltd., Vitrum Glass Division, Bombay-Agra Rd., Vikhroli, Bombay 400083.

Fibreglass Pilkington Ltd., 9, Wallace St., Bombay 400001.

Furnace Corpn., Empire Estate, Kondivita Rd., Off Andheri-Kurla Rd., Bombay 400059.

Glass Containers Pvt. Ltd., Saki Vihar Rd., Saki Naka, Bombay 400072.

Haldyn Glass Works Pvt. Ltd., Off Western Express Highway, Goregaon East, Bombay 400063.

Hargovind Dharamsi & Co., 344, New Nagpada Rd., Bombay 400008.

Jg Glass Industries Pvt. Ltd., Bombay-Agra Rd., Pimpri, Pune 411018.

Kangan Pvt. Ltd., Kanchwadi, Govandi, Bombay 400071.

Kapoor Industries, Old Pokhran Rd., Thane 400601.

Kishore Industries, 174, Dr. D. N. Rd., Bombay 400001.

Mahalakshmi Glass Works Pvt. Ltd., Dr. E. Moses Rd., Jacob Circle, Bombay 400011.

Mahomedally Valji Arsiwalla, 76, A. Rehman St., Bombay 400003.

Ogale Glass Works Ltd., Ogalewadi 415001. Satara Dist.

Ogale Glass Works Ltd., Pimpri, Pune 411018.

Paisa Fund Glass Works, Talegaon-Dabhade 410506. Pune Dist.

Paramount Trdg. Syndicate Pvt. Ltd., 183, Bazargate St., Bombay 400001.

Patanwala Glass Works Pvt. Ltd., L.B. Shastri Marg, Ghatkopar (West), Bombay 400077.

R. D. Ashar Engg. Division, 10, Homi Mody St., Bombay 400023.

Ranjan Enterprises Pvt. Ltd., 6A, Sukhniwas, 3rd Pasta Lane, Colaba, Bombay 400005.

Safeglass Corpn. Pvt. Ltd., 10-12, Gowalia Chawl Lane, Near Prakash Cotton Mills, Worli, Bombay 400018.

Samir Glass Traders, 21-23, Dhanji St., Bombay 400003.

Silica Ware Pvt. Ltd., 54C, Chotani Estate, Proctor Rd., Bombay 400007.

Star Glass Works, 299, Kurla-Andheri Rd., Bombay 400072.

Talwalker Bros. Pvt. Ltd., W.R. 74, Sherif House, S. Bhagatsingh Rd., Bombay 400023.

Topaz Glass Pvt. Ltd., Eagle Estate, Talegaon 410506. Pune Dist.

V. Gopaldas & Co., 299, Y. Meheralli Rd., Masjid Bunder, Bombay 400003.

Vazir Glass Works Ltd., J. B. Nagar, M. Vasanji Rd., Bombay 400059.

Tamil Nadu

Attur Glass Industries Pvt. Ltd., Attur 636102. Salem Dist.

Central Glass Factory, 403, Mint St., Madras 600001.

Pilco Mirror Industries, C-14, Ind. Estate, Guindy, Madras 600032.

South India Glass & Enamel Works Ltd., 172, Cherry Rd., Salem 636007.

Vir Glass Works, 183, Madhavaram High Rd., Madhavaram, Madras 600060.

Uttar Pradesh

Allahabad Glass Works Pvt. Ltd., Naini 211008. Allahabad Dist.

Ashok Glass Works, Sarojini Marg, Firozabad 283203.

C.B. Glass Works, Etmadpur, Agra 282001.

Hind Lamps Ltd., Shikohabad 205135.

Khandelwal Glass Works, Sasni 204216. Aligarh Dist.

Mohan Crystal Glass Works, Mohan Nagar, Ghaziabad 201007.

Paliwal Glass Works, Shikohabad 205135.

U. P. Glass Works Ltd., Bahjoi 202410, Moradabad Dist.

West Bengal

Annapurna Glass Works Pvt. Ltd., Raja S. C. Mallick St., Calcutta 700032.

Ashoke Glass Works, 9, Ezra St., Calcutta 700001.

Bengal Electric Lamp Works Ltd., 4, Fairlie Place, Calcutta 700001.

Central Glass Inds. Pvt. Ltd., 7, Swallow Lane, Calcutta 700001.

Electric Lamp Manufrs. (India) Pvt. Ltd., 1, Taratolla Rd., Garden Reach, Calcutta 700024.

Hindustan National Glass & Industries Ltd., 2, Wellesley Place, Calcutta 700001.

Krishna Silicate & Glass Works Ltd., R. S. Mullick Rd., Calcutta 700032.

New Indian Glass Works (Cal.) Ltd., 2, Church Rd., Calcutta 700028.

Shiva Glass Works Co. Ltd., 27, Brabourne Rd., Calcutta 700001.

GLASS BOTTLES

Ajit Glass Works Pvt. Ltd., S. Vivekananda Rd., Bombay 400060.

Associated Glass Ind. Ltd., Varadanagar, Sanatnagar, Hyderabad 500018.

Bombay Glass Works Pvt. Ltd., Manmala Tank Rd., Mahim, Bombay 400016.

Delhi Bottling Co. Pvt. Ltd., 60, Shivaji Marg, Najafgarh Ind. Area, New Delhi 110015.

Excel Glasses Ltd., Post Box 181, Alleppey 688001 (Kerala).

Haldyn Glass Works Pvt. Ltd., Off Western Express Highway, Goregaon East, Bombay 400063.

Mahalakshmi Glass Works Pvt. Ltd., Sanatnagar, Hyderabad 500018.

Maharashtra Safety Glass Works Pvt. Ltd., 7-94, Bhosari, M.I.D.C., Pune 411026.

Mysore Crystal Glass Industries, Tannery Rd., Bangalore 560045.

National Glass Bottle Co., 4, 'Ararat', 89, Medows St., Bombay 400023.

R. G. Glass Inds., 244, M. Azad Rd., Opp. Urdu Times, Bombay 400008.

Shree Gobinddeo Glass Works Ltd., 9, Ezra St., Calcutta 700001.

Standard Bottles Supply Co., 88, Ragipet, Bangalore 560002.

United Glass Works Pvt. Ltd., 111, Bhandari St., Bombay 400003.

GLASS — COLOURED, WIRED AND FIGURED

Billor Colour Glass Pvt. Ltd., 19, Kala Udyog Premises Co-op. Socy. Ltd., Bhandup, Bombay 400078.

Hindustan Pilkington Glass Works Ltd., Hindustan Bldg., 4, Chittaranjan Ave., Calcutta 700001.

Shree Vallabh Glass Works Pvt. Ltd., Sylvester Bldg., 20, S. Bhagat-Singh Rd., Bombay 400001.

Window Glass Ltd., 15, Brabourne Rd., Calcutta 700001.

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Atul Glass Ind., 3/9, D. B. Gupta Rd., New Delhi 110055.

Deccan Safety Glass Works Pvt. Ltd., Athipet, Madras 600053.

Globe Mirror Industries, B-11, Indl. Estate, Guindy, Madras 600032.

Hindustan Safety Glass Works Pvt. Ltd., 2, St. George's Gate Rd., Hastings, Calcutta 700022.

Krishna Glass Works, 26, Venkatachala Mudali Lane, Madras 600003.

M. A. Kachwalla & Sons, 97-99, Dhanji St., Bombay 400003.

Maharashtra Safety Glass Works Pvt. Ltd., T-94, Bhosari, M.I.D.C., Pune 411026.

Mulla Musaji Mulla Adamji Arsiwalla, 138, Abdul Rehman St., Bombay 400003.

Pilco Glass Inds., A-143, Indl. Estate, Peenya, Bangalore 562140.

Shree Vallabh Glass Works Pvt. Ltd., 20, S. Bhagat-singh Rd., Sylvester Bldg., Bombay 400001.

Tass Mirror Inds., 138, Abdul Rehman St., Bombay 400003.

GOBAR GAS PLANT

Bharat Laboratory & Biological House for Agriculture, Pandurang Smiti, Dhule 424001.

Khadi & Village Ind. Commission, Irla, Bombay 400058.

GRAMOPHONE RECORDS

Gramophone Co. of India Ltd., 33, Jessore Rd., Dum Dum, Calcutta 700028.

Hindustan Musical Products Ltd., 6/1, A. Dutt Lane, Calcutta 700012.

Polydor of India Ltd., Ashok Nagar Rd., Kandivli East, Bombay 400067.

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Graphite India Ltd., 31, J. L. Nehru Rd., Calcutta 700016

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Balaji Chemical Works, A.P.I.E., 5th Rd., Balanagar, Hyderabad 500037.

Bhagawati Chemical Industries, Amar House, Kadia Kui Relief Rd., Ahmedabad 380001.

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Shree Sonal Gum Inds., 9, G.I.D.C., Vatva 382445. Ahmedabad Dist.

Vivekanand Mills, Off Saki-Vihar Rd., Bombay 400072.

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Modern Nutrition Co. (Machinery Divn.), B-3 Unit, Chandulal Baradari Ind. Estate, Hyderabad 500002.

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Delhi

Datta Cottage Ind. of India, F-23, D. B. Gupta Market, Karol Bagh, New Delhi 110005.

Eastern Linkers Pvt. Ltd., Odeon Bldg., Connaught Place, New Delhi 110001.

Indian Arts & Crafts Syndicate, 2666, Ballimaran, Delhi 110006.

N. K. Overseas Traders, M-30A, Greater Kailash I, New Delhi 110048.

Paramount Traders, 4/47, W.E. Area, Karol Bagh, New Delhi 110005.

R. D. Ramnath Co., Jama Masjid, Delhi 110006.

S. Nath Kakar & Son, 41, Hanuman Rd., New Delhi 110001.

S. Ram Singh & Sons, 119, New Qutab Rd. Market, Delhi 110006.

Maharashtra

Bharat Inds. Corpn., 31, Fort St., Bombay 400001.

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E. Peerbhoy & Sons, 64, Mohamedali Rd., Shahru Castle, Bombay 400003.

Narang (Overseas) Co. Pvt. Ltd., 93, B. Desai Rd., Bombay 400026.

Tamil Nadu

Lotus Ind. Ltd., "Burma House", 16, Coral Merchant St., Madras 600001.

West Bengal

East India Trdg. Co., 2, Church Lane, Calcutta 700001.

HARDWARE TOOLS & MACHINERY

Electro-Steel Engg. Co., Swadeshi Mkt., Kalbadevi Rd., Bombay 400002.

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Anup Engg. Ltd., Post Box 1164, Ahmedabad 380002.

Bakubhai Ambalal, Kaiser-I-Hind Bldg., Currimbhoy Rd., Ballard Estate, Bombay 400038.

Bharat Radiators Pvt. Ltd., Bajaj Bhavan, N. Point, Bombay 400021.

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Flowlink Inds. Pvt. Ltd., 62, Najafgarh Rd., New Delhi 110015.

Heatreaters & Engineers, Ashok Silk Mills Lane, Off L. B. Shastri Mrg., Ghatkopar, Bombay 400086.

Kanara Engg. Co. Pvt. Ltd., Melville House, Mazagaon, Bombay 400010.

Kaveri Structurals, Sire Mansion, 123, Mount Rd., Madras 600006.

Lamda Inds., 201, Neelam, 108, Worli Sea Face, Bombay 400018.

Manik Radiators Pvt. Ltd., 122/124A, Jolly Maker Chambers No. 2, Nariman Point, Bombay 400021.

Manish Engg. Co., 88/89, Surat St., Bombay 400009.

Mirch Mirex Ltd., Delstar, Hughes Rd., Bombay 400036.

Nigasu Engg. Co., 12th Rd., Santa Cruz East, Bombay 400055.

Premier Economisers Pvt. Ltd., 254, Dr. A. B. Rd., Bombay 400025.

Rajendra Mechanical Ind. Pvt. Ltd., 9, Shah Ind. Estate, Veera Desai Rd., Andheri (W.), Bombay 400058.

Reliance Heat Transfer Pvt. Ltd., 46, V. Nariman Rd., Bombay 400023.

Sanvitech Inds., B–3/6, Kanaya Nagar, Thane 400603.

Sherai Engg. Works, Great Western Bldg., N. Master Rd., Bombay 400023.

Simplex Udyog, 65, Ind. Est., Bhilai 490001 (M.P.).

Steam Radiators Corpn., 3–A, Madan Mohan Silk Mills Compound, Sonawala Cross Rd., Bombay 400063.

Venus Engg. Service, 127, Kewal Estate, S. Bapat Mrg., Bombay 400013.

Westerwork Engineers Ltd., 5-D, Vulcan Insce. Bldg., Veer Nariman Rd., Bombay 400020.

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Cenco Electricals Appliances & Equipments, C-32, Sanatnagar, Hyderabad 500018.

Scientific Electricals Sales Pvt. Ltd., Shalibanda, Hyderabad 500002.

Delhi

Alphine Agencies, 10, Subhas Mrg., Daryaganj, New Delhi 110002.

C.P.N. Industries, 18, Najafgarh Rd., New Delhi 110015.

Ghaziabad Engg. Co. Pvt. Ltd., 42, Janpath, New Delhi 110002.

Telelec Corpn. (India), N-29, Lane No. 4, Anand Parbat, Rohtak Rd., New Delhi 110005.

Theetha Indl. Heating Equipments Pvt. Ltd., 5, Comm. Centre, Naraina Ind. Area, Phase I, New Delhi 110029.

Timex Agencies, 84, Basti H. Singh, Delhi 110006.

Gujarat

Panchal Engg. Works, Dariapur, Char Rasta, Ahmedabad 380001.

Karnataka

Mysore Electrical Appliances & Canteen Equipments Mfg. Co., D-25, Ind Estate, Mysore 570002.

Radio & Electrical Manufg. Co. Ltd., Mysore Rd., Bangalore 560026.

Swarna Electricals, 14, S. Chetty Rd., Bangalore 560004.

Maharashtra

Akamsha Engg. Co., 17-A, Shalimar Ind. Est., Matunga, Bombay 400019.

B. R. Hermann & Mohatta (India) Pvt. Ltd., Mustafa Bldg., Sir P. Mehta Rd., Bombay 400001.

Bharat Heaters, 19, Tardeo Bridge, Diana Cinema Lane, Bombay 400034.

Chetan Electric Ind., Allied Ind. Estate, Unit No. 125, M. M. Chhotani Rd., Mahim (West), Bombay 400016.

Commonwealth Electrical Ind., 72, Mangaldas Rd., Lohar Chawl, Bombay 400002.

Control Instruments, G-25, Shalimar Ind. Estate, Matunga, Bombay 400019.

Economic Electric Co. Pvt. Ltd., Jail Rd., East, Dongri, Bombay 400009.

Economy Engg. Corpn., 24, Shah Indl. Est., Bombay 400088.

Escee Kitchenaid, Shreenivas House, 98, Dattaram Lad Mrg., Kalachowki, Bombay 400033.

Giri Industries, Empire Ind. Estate, 18, Kondivita Rd., J. B. Nagar, Andheri (East), Bombay 400069.

Hazari Trdg. Co., 129, Modi St., Bombay 400001.

Indrajit Industries, 10, Kurla Indl. Estate, Ghatkopar, Bombay 400086.

Industrial & Agricultural Engg. Co. (Bombay) Pvt. Ltd., 43, Dr. V. B. Gandhi Marg, Bombay 400023.

Industrial Controls & Appliances Pvt. Ltd., 47–49, Chakala Rd., Andheri, Bombay 400069.

International General Electric Co. India Ltd., Nirmal, Nariman Point, Bombay 400021.

Intervest Process-Flow Controls, 114, Churchgate Chambers, New Marine Lines, Bombay 400020.

Janata Works Pvt. Ltd., 162, Tulsi Pipe Rd., Bombay 400013.

Japsin Instrumentation, 40, Picket Rd., Kalbadevi, Bombay 400002.

Kantilal Chunilal & Sons, 80/82, Vithalwadi, Bombay 400002.

Kesbo Pvt. Ltd., Bombay Mutual Terrace, 534, Sandhurst Bridge, Bombay 400007.

Kosha Engg. Works, 7, Udyog Nagar, Goregaon West, Bombay 400062.

Lamda Industries, 201, Neelam, 108, Worli Seaface Rd., Bombay 400018.

Navbharat Electrical Ind., 'Premji Chambers', Hospital Lane, Nr. Bombay Hospital, Bombay 400020.

Nestler Boilers Pvt. Ltd., Dalamal Chambers, Marine Lines, Bombay 400020.

P. Khabardar Electric Works, 191, Dr. Ambedkar Rd., Opp. Chitra Cinema, Dadar, Bombay 400014.

Parkeen Bros., 24, N. Master Rd., Bombay 400023.

Pratik Heat Products, 11, National Takiwala Indl. Est., Bombay 400059.

Primco. Pvt. Ltd., 384, Dr. Bhadkamkar Mrg., Bombay 400004.

Racold Appliance Pvt. Ltd., Bombay Pune Rd., Pimpri, Pune 411018.

Reliance Heat Transfer Pvt. Ltd., 46, Vir Nariman Rd., Bombay 400023.

Rishba Industries, 76, Kakad Ind. Estate, Off L. J. Rd., Mahim, Bombay 400016.

Sushra & Co., 17-B, Ghatkopar Ind. Estate, Bombay 400086.

Tempo Ind. Corpn., 1, Lamington Chambers, 394, Dr. Bhadkamkar Marg, Bombay 400004.

V. Natverlal & Co., 133, S. Gandhi Marg, Bombay 400002.

Vidyut Engg. & Technology Pvt. Ltd., A-12, Nand Jyot Ind. Estate, Andheri Kurla Rd., Bombay 400072.

Vikas Electrics Pvt. Ltd., Govandi Station Rd., Bombay 400071.

Wanson India Pvt. Ltd., Chinchwad, Pune 411019.

Wima (India), 505, Churchgate Chambers, 5, New Marine Lines, Bombay 400020.

Punjab

Pioneer Enamelling Works, G. T. Rd., Cheharta 143105.

Tamil Nadu

Ashok Engg. Inds., 24, Thambu Chetty St., Madras 600001.

Electro-Mech. Instruments, 49, T. H. Rd., Madras 600019.

Hygrodyn Pvt. Ltd., 1/155, Mount Rd., Madras 600002.

Murugan Electricals, 4, Brunton Cotton Press Rd., Madras 600013.

Power Control & Appliances, F-11, Ind. Estate, Madras 600058.

Uttar Pradesh

Ema India Ltd., 4, Indl. Area, Govindnagar, P.O. Udyognagar, Kanpur 208022.

Jai Hind Trading Corpn., G.T. Rd., Sahibabad, Ghaziabad 201001.

West Bengal

ACC-Vickers-Babcock Ltd., Durgapur 713201.

Adair Dutt & Co. (India) Ltd., 5, Dalhousie Sq. (East), Calcutta 700001.

Beni Ltd., 1, Crooked Lane, Calcutta 700001.

Bharat Sheet Metal Industries Ltd., 22, Beerpara Lane, Calcutta 700030.

General Electric Co. of India Pvt. Ltd., Magnet House, 6, Chittaranjan Ave., Calcutta 700013.

Getz Bros. & Co., Inc., 9, Brabourne Rd., Calcutta 700001.

Heat Treater Industries (India) Pvt. Ltd., 135, B. R. B. Bose Rd., Calcutta 700001.

Heatem Engg. Co., P.-30A, CIT, Scheme 52, Calcutta 700014.

Jay Engg. Works Ltd., 225C, A. J. Bose Rd., Calcutta 700020.

Middleton Engg. Co., 12E, Park St., Calcutta 700071.

Rexon Inds., 5-B, Clive Ghat St., Calcutta 700001.

S. Sircar & Co. Pvt. Ltd., 10, Phears Lane, Calcutta 700012.

Sur Industries Pvt. Ltd., 163, Acharya J. B. Rd., Calcutta 700014.

Tarif Appliances & Equipments Pvt. Ltd., 34, C. N. Roy Rd., Calcutta 700039.

Technotrade Engg. Co., 285-E, B. B. Ganguly St., Calcutta 700012.

Wesman Combustion Equipment Co. Pvt. Ltd., Allenby Court, 1/2 Allenby Rd., Calcutta 700020.

HERBO-MINERAL MEDICINES

J. & J. De Chane Laboratory Pvt. Ltd., Residency Rd., Hyderabad 500001.

HOMOEOPATHIC MEDICINES

Roy & Co., 176, Shamaldas Gandhi Marg, Bombay 400002.

Banaji's Homeopathic Pharmacy, 248, S. Gandhi St., Bombay 400002.

HOSIERY

Andhra Pradesh

Hyderabad Hosiery Ltd., Indl. Area, Azamabad, Hyderabad 500001.

Bihar

Muzzafarpur Hosiery Mills Pvt. Ltd., Club Rd., Muzafarpur 842001.

Shree Bhagwati Hosiery Mills Pvt. Ltd., Central Jail Rd., Bhagalpur 812001.

Delhi

Agarwal Jain Hosiery Mills, 6, Model Basti, New Delhi 110005.

Hindustan Knitting & Finishing Mills, 16-A, Najafgarh Rd., New Delhi 110015.

Jainco Hosiery Mills, 5633, Qutab Rd., New Delhi 110001.

Nehru Hosiery Mills, 5509, Basti Harphool Singh, New Delhi 110006.

Gujarat

Ambica Hosiery Works, 14/15, Muni Ind. Est., Ahmedabad 380021.

Amir Hosiery Factory, Jyotingshah Pirs Pole, Kalupur, Ahmedabad 380001.

Buytex Knitting Inds., 1, Kamal Sahakari Oudhyogik Vasahat Ltd., Rakhial, Ahmedabad 380023.

Fine Knitting Co. Ltd., Asarwa, Ahmedabad 380016.

Ilac Ltd., Industrial Mills Compound, Ahmedabad 380021.

Shree Digvijay Woollen Mills Ltd., Aerodrome Rd., Jamnagar 361001.

Uday Hosiery Works, Rajkot 360001.

Jammu & Kashmir

Kashmir Knitting Co., Parade Ground, Jammu Tawi 180001.

Karnataka

Karnatak Hosiery Sahakari Sangh Ltd., Shahpur, Belgaum 590002.

Kerala

Aysha Hosiery Factory Pvt. Ltd., Palaparamba, Cannanore Dist.

Commonwealth Trust Ltd., Calicut 673001.

Kunnath Textiles, Ayyanthole, Trichur 680003.

Malabar & Pioneer Hosiery Pvt. Ltd., 16-505, Kallai Rd., Calicut 673002.

Madhya Pradesh

Orimpex Knitters, 6, Ind. Estate, Gwalior 474001.

Maharashtra

Advance Inds., 28, Shamsheth St. (Chippy Chawl), Bombay 400002.

Allied Inds., 396, Cadell Rd., Prabhadevi, Bombay 400025.

Anil Hosiery Works, 336/B, Kalbadevi Rd., Bombay 400002.

Arora Agency, 310 Champaklal Ind. Estate, Sion (E), Bombay 400022.

Ashok Products, 86/87, J. K. Ind. Estate, Moosa Kiledar St., Jacob Circle, Bombay 400011.

B. Paramanand Inds., 37/41, Picket Rd., Bombay 400002.

Bombay Knitwear, 6, Shanti Bldg., Moghul Lane, Mahim, Bombay 400016.

Dawn Mills Co. Ltd., Fergusson Rd., Bombay 400013.

Deepak Hosiery Works, Globe Mills Passage, Cross Lane, Bombay 400025.

EKD Wearall Knitting Works, 12/12A, Indl. Estate, Fergusson Rd., Lower Parel, Bombay 400013.

Fine Hosiery Inds., 98-B, L. H. Rd., Mahim, Bombay 400016.

Great Eastern Hosiery Works Pvt. Ltd., 7, Chowpatty Rd., Bombay 400007.

Green Hosiery Factory, 39, Wadhani Indl. Estate, L. B. S. Mrg., Ghatkopar, Bombay 400089.

Kastur B. Ind. Pvt. Ltd., Forjett St. Cross Lane, Bombay 400026.

Kohinoor Hosiery Works, Ulhasnagar 421003.

Liberty Hosiery Works, Thanawala Bldg., 4, Bhajipala Lane, Bombay 400003.

Mayfair Hosiery Works, Shree Laxmi Woollen Mills Compound, Haines Rd., Bombay 400011.

Menora Hosiery Works Pvt. Ltd., 75, Nehru Rd., Bombay 400057.

National Hosiery Factory, Near Paradise Cinema, Mahim, Bombay 400016.

Omtex Hosiery Mills, 45, J. Wadia Rd., Bombay 400012.

Rolex Hosiery Pvt. Ltd., 142-C, Delisle Rd., Bombay 400013.

Shree Jam Hosiery Works Pvt., Ltd. 2, Old Hanuman 2nd Cross Lane, Bombay 400002.

Punjab

Advance Hosiery Mills, Advance St., Ludhiana 141001.

Amber Inds. Pvt. Ltd., The Mall, Ludhiana 141001.

Angoora Hosiery Mills, P.B. No. 80, Ludhiana 141001.

Ashoka Hosiery Factory, Lala H. Raj Mehra Bldg., Kashmir Rd., Amritsar 143001.

Bajaj Hosiery Factory, Madhopuri No. 1, Ludhiana 141001.

Broadway Hosiery Works, Dresi Rd., Ludhiana 141001.

Camel Knitting & Textile Mills, Subhas Market, Ludhiana 141001.

Hind Woollen & Hosiery Mills Pvt. Ltd., Ludhiana 141003.

K.K.K. Mills, 349, Chawal Bazar, Ludhiana 141001.

Minerva Hosiery Mills Pvt. Ltd., Civil Lines, Ludhiana 141001.

Navrang Textile & Knitwears, Civil Lines, Ludhiana 141001.

Oswal Woollen Mills, G.T. Rd., Ludhiana 141001.

Pearl Hosiery Mills, Gopal Rd., Karimpura, Ludhiana 141008.

S. D. Hosiery Mills, Purani Kotwali, Chaura Bazar, Ludhiana 141001.

Shahzada Hosiery Mills, B IV/278, Shahzada St., P.O. Box 40, Ludhiana 141001.

Sind Knitwears Pvt. Ltd., G. T. Rd., Ludhiana 141003.

Sutlej Hosiery Mills, 228, Ind. Area A, Ludhiana 141001.

Texwin Fashion Knitwear, Nicholson Rd., Ambala 133001.

Wazir Hosiery Works, Indl. Area 'A', Ludhiana 141001.

York Hosiery Mills Pvt. Ltd., York House, Civil Lines, Ludhiana 141001.

Rajasthan

Jaipur Hosiery Mills Pvt. Ltd., 13 Adarsh Nagar, Ind. Area, Jaipur 302001.

Marwari Textiles Mills, Bhilwara 311001.

Syntex Fabrics Ltd., Kota 324003.

Tamil Nadu

Anand Hosieries, 19-B, Avanashi Rd., Tirupur 638603.

Annur Knitting Co., Lakshminagar Main Rd., Tirupur 638602.

Bhagvathi Knitting Co., Kongunagar Main Rd., Tirupur 638602.

Crystal Knitters, No. 2, Kongunagar Main Rd., Tirupur 638602.

Haroon Knitting Co., P.B. No. 372, Tirupur 638604.

Jaya Knitting Works, Lakshminagar Main Rd., Tirupur 638602.

Lotus Industries Ltd., No. 16, Coral Merchant St., Madras 600001.

Madras Knitting Factory, Palladam Rd., Tirupur 638602.

Mohan Knitting Co., Kamaraj Rd., Tirupur 638604.

Narayan Knitting Co., Kongunagar, Tirupur 638602.

Premson Hosiery Mills, Kongunagar Main Rd., Tirupur 638602.

Sri Lakshmi Hosiery Mfrs., No. 10/5, Duraiswamypuram 2nd St., Tirupur 638602.

Tiger Knitting Co., 36/12, Azad St., Tirupur 638601.

Titoni Knitting Co., Mangalam Rd., Tirupur 638604.

Tirupur Knitting Co., No. 75, Kumaran Rd., Tirupur 638601.

Travancore Knitting Co., Palladam Rd., Tirupur 638601.

Vasugi Knitting Works, Muthunaidu St., Gudiyattam 632602. N. Arcot Dist.

Uttar Pradesh

Benares Hosiery Ltd., Thatheri Bazar, Varanasi 221001.

Dayalbagh Textile Factory Pvt. Ltd., Dayalbagh, Agra 282006.

Eagle Hosiery Works, 62, Chepal St., Meerut 250001.

Prajah Textile Mills, Chhoti Bajaria, Ghaziabad 201001.

Shree Vikram Cotton Mills Ltd., Talkatora Rd., Lucknow 226001.

West Bengal

Amiya Hosiery Mills Pvt. Ltd., 4. Mahendra Goswami Lane, Calcutta 700006.

Ashoka Hosiery Mills, 5, S. Johuri Lane, Calcutta 700007.

Asia Hosiery Mills Pvt. Ltd., 73/8, Grey St., Calcutta 700006.

Banga Luxmi Hosiery Mills Pvt. Ltd., 1/4-C, Khagendra Chatterji Rd., Calcutta 700002.

East-End Hosiery Mills Pvt. Ltd., 100, Raja Dinendra St., Calcutta 700006.

Hind Hosiery Mills Pvt. Ltd., 161/A, M. Gandhi Rd., Calcutta 700007.

India Hosiery Mills Pvt. Ltd., 223, Manicktolla Main Rd., Calcutta 700011.

Mira Knitting Works Pvt. Ltd., 31, Robort St., Calcutta 700012.

Pioneer Knitting Mills Ltd., Pioneer Bldg., 6/1A, P. Soor Lane, Calcutta 700002.

Swan Textiles Works Pvt. Ltd., 61, Russa Rd., East First Lane, Calcutta 700061.

Vinar Ltd., 2A, Shakespeare Sarani, Calcutta 700016.

HOSPITAL EQUIPMENT

(See under Medical Equipment).

HOUSEHOLD WARES

Balsara Hygiene Products. 43, Nagindas Master Rd., Bombay 400023.

Bellaire Houseware Mfrs., 605, Gorakhpurwala Bldg., J. Shanker Seth Rd., Bombay 400002.

Swastik Household & Industrial Products Ltd., 15, Walchand Hirachand Mrg., Bombay 400038.

HURRICANE LANTERNS

India Industrial Works Pvt. Ltd., 55 1, Dharamtalla Rd., Howrah 711101.

Ogale Glass Works Ltd., Ogalewadi 415105. Satara Dist.

Oriental Metal Ind. Pvt. Ltd., Agarpara 743177. 24 Parganas.

Universal Lamp Manufg. Co. Pvt. Ltd., 93-B, Ripon Rd., Calcutta 700001.

HYDRAULIC EQUIPMENT, PRESSES, HOSES, ETC.

Aeroflex Hose Inds., 305, Sharada Chambers, 15, New Marine Lines, Bombay 400020.

Allied Hydro-Pneumatic, 2/A, Banaji St., Off Cawasji Patel St., Bombay 400001.

Bharat Motors, 35, Mount Rd., Madras 600002.

Davy Ashmore India Ltd., 6A, Middleton St., Calcutta 700071.

Denison Hydraulics India Ltd., Patancherlu 502319. (A.P.).

Fluid Power Pvt. Ltd., 11, Rock House, Worli Hill Rd., Bombay 400018.

Gautam Trading Co., 184, Nagdevi St., Bombay 400003.

Hariss Engrs., A-38/1, Mayapuri Ind. Area, New Delhi 110064.

Heatley & Gresham (India) Pvt. Ltd., 28, Barakhamba Rd., New Delhi 110001.

Hind Equipment Corpn. Pvt. Ltd., 24B, Hamam St., Bombay 400001.

Hindustan Machine Tools Ltd., Bangalore 560052.

Hydraulic & Engg. Inds., 59/4, Naraina Ind. Area, Phase II, New Delhi 110028.

Hydro Control Pvt. Ltd., 49/B, 2nd Phase, Peenya Ind. Estate, Bangalore 560022.

Hydromatic Engg. Pvt. Ltd., P-3, Suhrawardy Ave., Calcutta 700017.

Indian Hydraulic Inds., 70, Najafgarh Rd., New Delhi 110015.

Indian Splicing (Mechanical) & Accessories Pvt. Ltd., Post Box 74, Ranchi 834001. (Bihar).

Indu Mechanical Works, 26, Prasanna Kumar Tagore St., Calcutta 700006.

Indudyog Co. Pvt. Ltd., 46, Okhla Ind. Estate, New Delhi 110020.

International Sales (India), Unique Ind. Estate, V. Savarkar Mrg., Prabhadevi, Bombay 400025.

J. Rosales Pvt. Ltd., Venkatesh Chambers, Prescot Rd., Bombay 400001.

Kazaf Engg. Co., 191, Nagdevi St., Bombay 400003.

Khimline Pumps Pvt. Ltd., 28, Mittal Chambers, Nariman Point, Bombay 400021.

Krampe Hydraulik (India), Kotkar Indl. Estate, Off Aarey Rd., Bombay 400063.

Larsen & Toubro Ltd., L & T House, N. Morarji Mrg., Bombay 400038.

Laxmi Inds., 22A, Dr. A. Nair Rd., Bombay 400011.

Liberty Hydraulic Presses, Bhayandar West, 401101. (Thane Dist.)

Marsan Machinex, 76, Erla Bridge, Andheri (W), Bombay 400058.

Modern Engg. Works, 310, Jogani Ind. Estate, 541, S Bapat Mrg., Bombay 400028.

Nandy & Co., 125, Belilious Rd., Howrah 711106.

New Bemco Engg. Products Ltd., Udyambag, Belgaum 590008.

Nigam Bros. (Sales) Pvt. Ltd., 150, Dharamtalla St., Calcutta 700013.

Oilcaval Corpn., 412, G.I.D.C. Estate, Vadodara 390010.

Omega Engg. Co., 149, Devipada, Off Gamdevi Rd., Bhandup, Bombay 400078.

ONYX Inds., 21·6 K.M., Mathura Rd., Faridabad 121003.

Oriental Engineering Works Pvt. Ltd., Ind. Area, Yamuna Nagar 135001. Ambala Dist., Haryana.

Oriental Trading Corpn., 135, B.R.B.B. Rd., Calcutta 700001.

Payen Talbros Ltd., 4, Indl. Estate, Gurgaon 122001.

Peeco Hydraulic Pvt. Ltd., Ambica Kundu Lane, Howrah 711104.

Pressweld Engineers, 20, Lokamanya Tilak Rd., Near Carnac Bridge, Bombay 400003.

R. B. Engg. Pvt. Ltd., Army & Navy Bldg., M. Gandhi Rd., Bombay 400023.

Sadhana Engg. Co., 220-G, Khadilkar Rd., Bombay 400004.

Schrader-Scovill Duncan Ltd., Mulund, Bombay 400080.

Sohal Engg. Works, Sohal Indl. Estate, L. B. S. Mrg., Bhandup, Bombay 400078.

Standard Hydraulik (India), C-9/10, Indl. Estate, Udyambag, Belgaum 590008.

Star Industrial House Divn., Star House, Naya Bans, Delhi 110006.

Sterling Hydraulic Co., 142, S. Vivekanand Rd., Bombay 400060.

Super Seals (India) Pvt. Ltd., Mathura Rd., Faridabad 121003.

Taurian Tubes, 44, Ramdulal Sarkar St., Calcutta 700006.

Veljan-Hydrair Pvt. Ltd., Balanagar, Hyderabad 500037.

Vickers Sperry of India Ltd., Akurli Rd., Kandivli East, Bombay 400067.

Victory Pumps & Engs. Mfg. Co., 69, Kandivli Indl. Estate, Kandivli West, Bombay 400067.

ICE PLANTS

Blue Star Ltd., Kasturi Bldg., J. Tata Rd., Bombay 400020.

Bombay Ammonia Pvt. Ltd., 298, P. Nariman St., Bombay 400001.

Frick (India) Ltd., Jeevan Vihar Bldg., Parliament St., New Delhi 110001.

Kirloskar Bros. Ltd., Kirloskarwadi 416308.

Kirloskar Pneumatic Co. Ltd., Hadaspar Ind. Est., Pune 411013.

Larsen & Toubro Ltd., L. T. House, N. Morarji Marg Bombay 400038.

Tropical Refrigeration Industries, Kangra Bhavan No. 2, Dr. A. Besant Rd., Bombay 400025.

IMITATION JEWELLERY

Ashley Corpn., Causeway House, Colaba, Bombay 400005.

Aurobrite (I) Pvt. Ltd., Evergreen Indl.Estate, Off Haines Rd., Bombay 400011.

Chatons Pvt. Ltd., Jolly Maker Chambers No. 1, R. No. 23, Nariman Point, Bombay 400021.

Empire Machine Tools, Gondal Rd., Rajkot 360002.

Goldfield Mercantile Co., 24, Chakala Rd., Andheri East, Bombay 400069.

Indian Arts & Crafts Syndicate, 2666, Ballimaran, Delhi 110006.

Jewel Art Inds., Shriram Indl. Estate, Wadala, Bombay 400031.

Leather Goods House, 524-A, S. Bapat Marg, Bombay 400028.

Mehta Bros., 299, A. Rehman St., Bombay 400003.

Oriental Mfg., Co., 114, 3rd Bhoiwada, Bhuleshwar, Bombay 400002.

Sharda Manufrs., 32, 3rd Bhoiwada, Bhuleshwar, Bombay 400002.

Skeleton Arts, 44, Agiary Lane, Bombay 400001.

INK MAKING MACHINERY

Doshi Engg. Works, Village Rd., Andheri (E), Bombay 400069.

Pioneer Engg. Co., 57, Apollo St., Bombay 400023.

INSTRUMENTS — SCIENTIFIC

Andhra Pradesh

Andhra Scientific Co. Ltd., R. Tagore Rd., Machilipatnam 521001.

Bio-Visual Products, 1-5-7/2, Musheerabad, Hyderabad 500020.

Electronics Corporation of India Ltd., Ind. Devpt. Area, Cherlapalli, Hyderabad 500762.

Elico Pvt. Ltd., B-17, Ind. Estate, Sanatnagar, Hyderabad 500018.

Instrument Techniques Laboratory, B-2, Co-op. Ind. Estate, Balanagar, Hyderabad 500037.

Vijay Scientific Equipment, P.O. Buckinghampet, Vijayawada 520002.

Bihar

Bihar Scientific Corpn., P.B. 34, Patna 800004.

Delhi

Allied Scientific Engg. Corpn., 10/15, Dakhshni Marg, Rajendra Nagar, New Delhi 110005.

Associated Instrument Manufrs. (I) Pvt. Ltd., 26/27, A. Ali Rd., New Delhi 110002.

Atlantis (India) Applications Engg. Pvt. Ltd., 4E/3, Jhandewalan Extn., New Delhi 110055.

Batra & Co., A-136, Defence Colony, New Delhi 110003.

Capital Scientific Instruments Co. Pvt. Ltd., 6, N. Subhas Marg, Daryaganj, New Delhi 110002.

Dutta Scientific Works, 3, Shri Ram Bldg., Jawahar Nagar, Delhi 110007.

Electric Instrumentation, Siddiq Bldg., G. B. Jadhav Rd., Delhi 110006.

Electronic Devpt. Laboratory, F-1/16, Ansari Rd., Daryaganj, New Delhi 110002.

Hindustan Scientific Instruments Co., J-114-A, Kirti Nagar Ind. Area, New Delhi 110015.

Hydraulic & Engg. Instruments, 59/4-B, Phase II, Naraina Indl. Area, New Delhi 110028.

Industrial Electronics, 100-U.B. Jawahar Nagar, Delhi 110007.

Macro Scientific Works, 10 A/U.A., Jawahar Nagar, Delhi 110007.

Narang Scientific Instruments Co., 9/7, Vijay Nagar, New Delhi 110003.

National Scientific Instruments Co., 37/38, U.B. Block, Jawahar Nagar, Delhi 110007.

Neulite Engg. Corpn., 63-64, Hari Nagar Ashram, Mathura Rd., New Delhi 110014.

Optical Instrumentation (India), 21, Beadon Pura, Karo Bagh, New Delhi 110005.

S. G. Engg., Co., 67, G. B. Rd., Delhi 110006.

Salooja Bros. Pvt. Ltd., 8/34, Kirti Nagar, Ind. Area, New Delhi 110015.

Sambros & Co., A-3/15, A. Ali. Rd., New Delhi 110002.

Scientific Equipment Works, 1/777, Nicholson Rd., Delhi 110006.

Scientific Instruments Co. Ltd., B/7, Ajmeri Gate Ext., New Delhi 110001.

Scientific Refrigeration Enterprise, K-106, Kirti Nagar, New Delhi 110015.

Stead Electronics Ind., 17 U. A. Jawahar Nagar, Delhi 110007.

Toshniwal Bros. Pvt. Ltd., 3/E/8, Jhandewalan Extn., Link Rd., New Delhi 110055.

Towa Optics (I) Pvt. Ltd., 4, Daryaganj, New Delhi 110002.

Widson Scientific Works, 10, West Sadar Thana Rd., Delhi 110006.

Gujarat

Atlas Radio & Electronic Ind. Pvt. Ltd., 57, G.I.D.C. Ind. Estate, Naroda, Ahmedabad 380002.

Jintan Clinical Thermometers Co. (I) Pvt Ltd., Surendranagar 363001.

Precision Indl. Enterprises, 182/3, Ind. Estate, Naroda, Ahmedabad 380002.

Systronics, Div. of Sarabhai Sons Pvt. Ltd., 899/92, Ind. Area, Naroda, Ahmedabad 380002.

V.A.P. Corpn., Pt. Nehru Marg, Jamnagar 361001.

Haryana

Beam Engrs., 2738, Timber Market, Ambala Cantt. 133001.

Continental Device India Ltd., 14/5, Mathura Rd., Faridabad 121003.

Eastern Electronics (Delhi) Pvt. Ltd., 1-2, Ind. Estate Township, Faridabad 121001.

Electrofones, P.B. 15, Timber Market, Ambala Cantt. 133001.

Instruments & Chemicals Ltd., Model Town, Ambala City 133003.

Jain Scientific Glass Works, Ambala Cantt. 133001.

Laboratory Equipment Traders, Timber Market, Ambala 133001.

Mohan Bros., Bengali Mohalla, Ambala Cantt. 133001.

Oriental Science Apparatus Workshop, Alexandra Rd., Ambala Cantt. 133001.

Scientific Glass Works, Bengali Mohalla, Ambala Cantt. 133001.

Taylor Instrument Co. (India) Ltd., 14, Delhi Mathura Rd., P.O. Amarnagar, Faridabad 121003.

Western Electric & Scientific Works, Nicholson Rd., Ambala Cantt. 133001.

Karnataka

Bharat Electronics Ltd., P.O. Jalahalli, Bangalore 560013.

British Physical Labs. (I) Pvt. Ltd., Bangalore 560027.

Hind High Vacuum Co., A-92, Indl. Estate, Rajaji Nagar, Bangalore 560044.

Kerala

Instrumentation Ltd., Kanjikode (W), Palghat 678623.

Kerala State Electronics Development Corpn. Ltd., 24 263, Syrian Church Rd., Trivandrum 695001.

Madhya Pradesh

Scientific & Industrial Instrument Co., B-14, Ind. Estate, Indore 452003.

Maharashtra

Adapt Laboratories, Karve Rd., Pune 411004.

Advance Scientific Co., Diamond Jubilee Comp., 285, Takurdwar Rd., Bombay 400002.

Afco Ltd., Ind. Est., Ferguson Rd., Bombay 400013.

Alliance Scientific & Chemical Co., 325, S.V.P. Rd., Bombay 400004.

Allied Electronics Corpn., 94, Kansara Chawl, Kalbadevi Rd., Bombay 400002.

Allied Instruments & Chemicals, P.B. 2643, 140, Princess St., Bombay 400002.

Allied Instruments Pvt. Ltd., 30-B, Govt. Ind. Estate, Kandivli, Bombay 400067.

Ama Pvt. Ltd., Canada Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Ampoules & Vials Manufg. Co., 139, Marol–Maroshi Rd., Bombay 400059.

Applied Electronics Pvt. Ltd., A–5, Wagle Estate, Thane 400604.

Asha Scientific Co., 503, J. Shanker Shet Rd., Bombay 400002.

Asian Electronics Ltd., Handloom House, 224, Dr. D. Naoroji Rd., Bombay 400001.

Asian Surgical Co., Alkarim Manzil, 15, Palton Rd., Bombay 400001.

Associated Dental Medical Supply Co., Yusuf Bldg., V. Nariman Rd., Bombay 400001.

Associated Instrument Manufrs. (I) Pvt. Ltd., India House, Fort St., P.B. 119, Bombay 400001.

Automatic Electric Pvt. Ltd., Rectifier House, Naigaum Cross Rd., P.B. 7103, Wadala, Bombay 400031.

Bajaj Electricals Ltd., 45/47, V. Nariman Rd., Bombay 400001.

Bajsons, 40, Chakala Rd., Bombay 400069.

Batliboi & Co., Pvt. Ltd., Apeejay House, Forbes St., Bombay 400023.

Blue Star Ltd., Band Box House, Prabhadevi, Bombay 400025.

Bombay Burma Trdg. Corpn. Ltd., 253-A-Z, Ind. Estate, Fergusson Rd., Bombay 400013.

Bombay Scientific Equipment Corpn., 41, Sion (West), Bombay 400022.

Bombay Scientific Glass Works, 13, Khetwadi Lane, Bombay 400004.

Bombay Surgical Co., Opp. H. N. Hospital, Bombay 400004.

Brisk Instrumentation, 5, Homi Mody St., Bombay 400023.

C. Z. Instruments India Pvt. Ltd., Court Chambers, 35, Sir V. Thackersey Mrg., Bombay 400020.

Chemech Instruments, Bhaveswar Vijay, Wadala (N), Bombay 400031.

Consolidated Electronics, 2, Sripat Bhuvan, Wadia St., Bombay 400034.

D. Shah & Co., 24 Sardar Griha Bldg., Lohar Chawl, Bombay 400002.

Deo Surgical & Scientific Co., 9, Dalal St., Bombay 400023.

Digital Electronics Ltd., 74 II Marol Indl. Area, MIDC, Andheri (E), Bombay 400093.

Divyesh Scientific Co., Sita Kunj, 4th Rd., Dadar, Bombay 400014.

Educational Scientific Stores, 110 113, Himalaya House, Palton Rd., Bombay 400001.

Electronic Enterprises, 46, Karani Bldg., Charni Rd., Bombay 400004.

Electronic Instrument Co., 44, C. Patel St., Bombay 400001.

Elico Pvt. Ltd., 95, D. Phalke Rd., Dadar, Bombay 400014.

Fairdeal Surgical Corpn., 105, Bank of Baroda Bldg., Palton Rd., Bombay 400001.

Gannon Dunkerley & Co. Ltd., Chartered Bank Bldg., M. Gandhi Rd., Bombay 400023.

Garg Scientific Glass Ind., 26/28, Dr. M. B. Velkar St., 1st Kolbhat Cross Lane, Bombay 400002.

Gansons Pvt. Ltd., 207, Kakad Chambers, Dr. A. B. Rd., Bombay 400018.

Gordhandas Desai Pvt. Ltd., Kermani Bldg., Sir P. M. Rd., Bombay 400001.

Greaves Cotton & Co. Ltd., Forbes St., Bombay 400023.

Gyro Laboratories Pvt. Ltd., 8, Gazdar St., Thakurdwar, Bombay 400002.

Hakotronics Pvt. Ltd., Sussex Rd., Bombay 400027.

Hardcastle Waud & Co., Ltd., 87, V. Nariman Rd., Bombay 400020.

Heatex Products Pvt. Ltd., 11, Bank St., Bombay 400023.

Hinditron Services Pvt. Ltd., 69/A, Nepean Sea Rd., Bombay 400006.

Honesty Scientific Corpn., 43, Princess St., Bombay 400004.

Hospital Equipment Co., Neelkanth, Opp. Marine Lines Station, Bombay 400002.

Imperial Surgical Co. Pvt. Ltd., 4, India House, Fort St., Bombay 400001.

Indian Electronics, Asha Studio, Chembur, Bombay 400071.

Indo–Burma Petroleum Co. Ltd. (Electronics Manfg. Div.), Allahabad Bank Bldg., Apollo St., Bombay 400023.

Indo-German Surgical Corpn., Purshottam Bldg., Opera House, Bombay 400004.

Industrial Controls & Appliances Pvt. Ltd., 47, Chakala Rd., Bombay 400069.

Industrial & Research Instruments Co., D/2, Commerce Centre, 74, Tardeo Rd., Bombay 400034.

Industrial Instruments & Controls, 308, Neelam, 108, Worli Sea Face Rd., Worli, Bombay 400018.

Industrial Meters Pvt. Ltd., Advent, 12-A, Foreshore Rd., Bombay 400021.

Instrumentation Service, 19-C, Shalimar Ind. Estate, Matunga, Bombay 400019.

J. N. Marshall & Co., 210, Dr. D. N. Rd., Bombay 400001.

Jayant Medical & Surgical Co., 52/58, New Hanuman Lane, Bombay 400002.

Jayant Scientific Industries, 19-B, Jambool Wadi, Kalbadevi Rd., Bombay 400002.

Kalekar Surgical Ind., 305, Princess St., Bombay 400002.

Kalpana Scientific Co., Govind Bldg., Princess St., Bombay 400002.

Khandelwal Chemo-Lab. Equipments, Bhangwadi, Kalbadevi Rd., Bombay 400002.

Khandelwal Herrmann Electronics Pvt. Ltd., Bhandup Village Rd., Bombay 400078.

Krishna Instruments & Appliances Co., 230, Arun Chambers, Tardeo Rd., Bombay 400034.

Lab Instruments, 87, C.P. Tank, Bombay 400004.

Labequip Corpn., 15, Gul Bahar, Barrack Rd., Behind Metro Cinema, Bombay 400020.

Larsen & Toubro Ltd., L & T House, Dougall Rd., Ballard Estate, Bombay 400038.

Lawrence & Mayo (I) Pvt. Ltd., 274, Dr. D. Naoroji Rd., Bombay 400001.

Lektrolab Equipment Co., 8, Shivaji Park, Bombay 400028.

Mahlo-Star Electronic Equipment Pvt. Ltd., Shri Lakshmi Woollen Mills Estate, Dr. E. Moses Rd., Bombay 400011.

Marshall Sons & Co. India Ltd., Marshalls Bldg., Shoorji Vallabhdas Mrg., B. Estate, Bombay 400038.

Martin & Harris Pvt. Ltd., Savoy Chambers, Wallace St., Bombay 400001.

Meco Instruments Pvt. Ltd., 310–311, Bharat Indl. Estate, T. J. Rd., Sewree, Bombay 400015.

Medica Instruments Mfg. Co., S. Bapat Mrg., Opp. Phoenix Mills, Bombay 400013.

Metzer (I) Optical Instrument Co., 110-113, Himalaya House, Palton Rd., Bombay 400001.

Modern Scientific Instruments Co., 48 A/B, Sadashiv Cross Lane, Bombay 400002.

National Radio & Electronics Co. Ltd., 8, Unity House, Mama Parmanand Marg, Bombay 400004.

National Scientific Instruments Co., 19, Bank St., Bombay 400023.

National Surgical Instrument Co., Haines Rd., Worli, Bombay 400018.

Neo Pharma Instruments Corpn., Kasturi Bldg., J. Tata Rd., Bombay 400020.

New Pioneer Medical Supply Co., Anand Bhavan, Princess St., Bombay 400002.

Orient Scientific & Chemical Co., 20, Kitchen Garden Lane, Bombay 400002.

Paramount Electrical & Mechanical Inds., 1980, Sadashiv Peth, Pune 411030.

Philips India Ltd., Shivasagar Estate, Block A, Dr. A. Besant Rd., Worli, Bombay 400018.

Pioneer Equipment Co., Pvt. Ltd., 139, N. Master Rd., Bombay 400001.

Pla Electro Appliances, Thaker Estate, Vidyavihar (W), Bombay 400086.

Polydor of India Ltd., A. Chakravarti Rd., Ashok Nagar, Kandivli East, Bombay 400067.

Polytronic Corpn., 7, Sainath Ind. Estate, Babasaheb Kotkar Rd., Goregaon, Bombay 400062.

Remi Udyog, 49C/D, Govt. Indl. Estate, Kandivli (W), Bombay 400067.

Ruttonsha Pvt. Ltd., E. International House, Shastri Mrg., Bombay 400079.

Sachin & Co., 25, Bank St., Bombay 400023.

Saples Scales Manufg. Co. Pvt. Ltd., Prospect House, Off Gunbow St., Bombay 400001.

Scientific Apparatus Manufg. Co., 225-C, Mangaldas Bldg., Mangaldas Rd., Bombay 400002.

Scientific Equipment Manufg. Co., 17-A, Jakaria Ind. Estate, Bombay 400011.

Scientific Instrument Co. Ltd., 240, Dr. D. Naoroji Rd., Bombay 400001.

Scientific Requisites Supplies, 37, Western India House, Sir P. Mehta Rd., Bombay 400001.

Shanti Electric Instruments, Green House, Green St., Bombay 400023.

South India Surgical Co., 57, K. M. Sharma Rd., Bombay 400002.

Specialised Instruments Manufg. Co., Neelam Bldg., Worli Seaface, Bombay 400018.

Standard Surgical & Dressing Works, 28, B. Genu Rd., Bombay 400002.

Star Electronics Pvt. Ltd., Dhanraj Mahal, Apollo Bunder Rd., Bombay 400039.

Techno-Electro Pvt. Ltd., 83, Jolly Maker Chambers II, 8th Floor, Nariman Pt., Bombay 400021.

Tempo Ind. Corpn., 1, Lamington Chambers, 394, Lamington Rd., Bombay 400004.

Toshniwal Bros. Pvt. Ltd., 198, J. Tata Rd., Bombay 400020.

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Udayraj & Sons, Readymoney Terrace, Dr. A. B. Rd., Bombay 400018.

Universal Scientific Glass Apparatus Mfg. Industry, 603, J. S. Rd., Bombay 400002.

Vibronics Pvt. Ltd., 4, Kurla Ind. Estate, Agra Rd., Ghatkopar, Bombay 400086.

Warden Surgical Co. Pvt. Ltd., Mapla Mahal, Thakurdwar, Bombay 400004.

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Zenith Electro Systems Pvt. Ltd., 541, Panchratna, Mama Parmanand Marg, Bombay 400004.

Zenith Surgical Co., 206, Mangaldas Bldg., Mangaldas Rd., Bombay 400002.

Punjab

Hans Raj Nayyar (Surgical) Co. Pvt. Ltd., Hall Bazar, P.B. 38, Amritsar 143001.

Rajasthan

Photo Electric Instruments, Diwan House, Mehta Market, Jodhpur 342001.

Tamil Nadu

English Electric Co. of India Ltd., Pallavaram, Madras 600043.

Gansons Pvt. Ltd., 131, Mount Rd., Madras 600006.

Scientific Instruments Co. Ltd., 30, Mount Rd., Madras 600002.

Scientific Products, C-42, Ind. Estate, Guindy, Madras 600032.

Seshasayee Bros. Pvt. Ltd., 9-A, Nungambakkam High Rd., Madras 600034.

Toshniwal Bros. Pvt. Ltd., Round Tana, Mount Rd., Madras 600002.

Uttar Pradesh

[illegible] Scientific Glass Industries, 46, Ind. Estate, Nanhai, Agra 282006.

Central Scientific Instrument Corpn., 5-A, M. Gandhi Rd., Agra 282001.

Gyam Scientific Traders, 28, Gautam Budha Marg, Lucknow 282001.

Newton Scientific Products Co., P.B. 193, Lucknow 282001.

Ramkumar & Bros., P.B. 61, Etawah 206001.

Scientific Corporation, 10, Bhopal House, Lalbagh, Lucknow 282001.

Scientific Instruments Co. Ltd., 6, T.B. Sapru Rd., Allahabad 211001.

West Bengal

Arora Wetzler Optical (India), Bow Bazar St., Calcutta 700012.

Bharat Ophthalmic Glass Ltd., Durgapur 713210.

[illegible] Syndicate Pvt. Ltd., 137, B.R. Basu Rd., Calcutta 700001.

H. Guru Instruments Pvt. Ltd., 2A, Shakespeare Sarani, Calcutta 700016.

J. R. Mullick & Co. Pvt. Ltd., 6 J, Keyatala Rd., Calcutta 700029

Lawrence & Mayo (I) Pvt. Ltd., 11, Govt. Place Rd., Calcutta 700001.

National Instruments Ltd., 1/1, R.S.C. Mullick Rd., Calcutta 700032.

Scientific Instruments Co. Ltd., 11, Esplanade East, Calcutta 700001.

Toshniwal Bros. Pvt. Ltd., 85-A, S. Bose Rd., Calcutta 700026.

Viliait Electronic Ind. Pvt. Ltd., 33/34, Sankaritolla St., Calcutta 700014.

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Aarson Insulators, 9 UB, Jawaharnagar, Delhi 110007.

Anudyog, 2, G. C. Ave., Calcutta 700013.

Artec Products, 55, Sidhpura Indl. Estate, Bombay 400062.

Ashwin Kumar & Co., Shreeji Bhavan, 49, Mangaldas Rd., Bombay 400002.

B. B. Chatterjee & Co. Pvt. Ltd., 22, Rajawoodmunt St., Calcutta 700001.

Commonwealth Insulations, Chemicals & Fertilizers Ltd., 38, Nariman Rd., Bombay 400001.

Dr. Beck & Co. (India) Ltd., Pimpri, Pune 411018.

Eastern Insulations, Sambava Chambers, Sir P. M. Rd., Bombay 400001.

Esarbi Enterprises, 12-A, N. Subhas Rd., Calcutta 700001.

Fibreglass Pilkington Ltd., 9 Wallace St., Bombay 400001.

Fibretex Inds. (India), 89, Sector 6, Faridabad 121002.

Fibro Products, 33A, Apurva Industrial Estate, Makwana Rd., Andheri (East), Bombay 400059.

High Insulation Inds., Mahimwala Compd., 12th Khetwadi Main Rd., Bombay 400004.

Industrial Insulation Corpn., 104, Arun Chambers, Tardeo, Bombay 400034.

Industrial Minerals & Chemical Co. Pvt. Ltd., 125, N. Dhuru St., Bombay 400003.

Industrial Minerals & Mill Stores, Mercantile Bldg., Lall Bazar, Calcutta 700001.

Insuglass Inds., Pvt. Ltd., 17/12, The Mall Rd., Calcutta 700028.

J. D. Jones & Co. Ltd., C-5, Gillander House, Calcutta 700001.

Jaya Shree Insulators, Rishra 712248. (Hooghly Dist.)

Jayant Inds., 33, Naik Nivas, 30, Benham Hall Lane, Bombay 400004.

Kinson Ind., 33, Anand Ind. Estate, Ghaziabad 201001.

Lloyd Insulation (India), 6, Middleton St., Calcutta 700016.

Luster Ceramics Pvt. Ltd., 4/19, Industrial Estate, Gorwa Rd., Vadodara 390003.

M. D. Tolia Corpn., 6/105-E, Mount Rd., Madras 600018.

M. S. Insulator Corp. of Maharashtra, 31, Old Post Office Lane, Kalbadevi Rd., Bombay 400002.

Madras Gauge Room Equipment Pvt. Ltd., 150-B, Mount Rd., Madras 600002.

Mahavir Insulations Pvt. Ltd., Mahavir Nagar, Gangapur Rd., Bhilwara 311001.

Mascot Insulations, 99/5/8A, Ballygunge Place, Calcutta 700019.

Mercury Marine Insulations, 206, Arun Chambers, Tardeo, Bombay 400034.

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Mineral Wool Manufg. Co., Jugsalai, Jamshedpur 831001

Montex Fibre Glass Ind. Pvt. Ltd., 2/18, Bombay [illegible] Annexe, Rustom Shidhwa Marg., Bombay 400001.

Newkem Insulations (Calcutta), 4, Chandni Chowk St., Calcutta 700013.

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Vidyut Udyog, 5 Fancy Lane, Calcutta 700001.

Vitro Ceramics, 157, Vithal Udyog Nagar, Vallabh Vidyanagar 388120 (Gujarat).

W. S. Insulators of India Ltd., 175/1, Mount Rd., Madras 600002.

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Consolidated Components, Ashok Silk Mills Compd., 202, LBS Marg, Ghatkopar, Bombay 400086.

Dynamic Services (India) Pvt., Ltd., Rohit House, 3, Tolstoy Mrg., New Delhi 110001.

Dynamic Systems Pvt. Ltd., 11A, Cuffe Parade, Bombay 400005.

Industrial Marketing Services, Rita Bldg., 51A, Sonapur St., Bombay 400002.

Instant Communications, 804, Madhuban, 55, Nehru Place, New Delhi 110024.

Mohns Electronics, Mohns House, Plot 81, MIDC Ind. Area, Andheri East, Bombay 400093.

Superphone Services (India), 18, New Queen's Rd., Bombay 400004.

System Manufacturing Pvt. Ltd., 1-A, Peenya Ind. Area, Off Tumkur Rd., Bangalore 560022.

Systems Communications, 101, Bajaj Bhavan, 10th Floor, Nariman Point, Bombay 400021.

Telecommunication Engrs., 6/20, Tardeo Air-Conditioned Mkt., Bombay 400034.

IRRIGATION SYSTEMS

Dattatraya Ind. Pvt. Ltd., 691A, Pune Satara Rd., Pune 411009.

Premier Irrigation Equipment Pvt. Ltd., 17/1C, Alipore Rd., Calcutta 700027.

JUTE GOODS

Alliance Mills (Lessees) Pvt. Ltd., 18, N. Subhas Rd., Calcutta 700001.

Birla Jute Manufg. Co. Ltd., Birlapur 743318. 24 Parganas, W. Bengal.

General Industrial Society Ltd., 8, India Exchange Place, Calcutta 700001.

Gungadhar Bannerjee & Co. Pvt. Ltd., Bakulia House, Kidderpore, Calcutta 700023.

Java Trading Co., 14-A, Clive Row, Calcutta 700001.

JUTE MILL MACHINERY

Britannia Engg. Co., Titaghur 743188. 24 Parganas.

Fort Gloster Inds. Pvt. Ltd., 21, Strand Rd., Calcutta 700001.

Free India Iron & Steel Works, 155, B. Roy Rd., Calcutta 700041.

G. & H. Shaw Pvt. Ltd., 40, Strand Rd., Calcutta 700001.

J. J. Ind., 45, Shiv Takur Le., Calcutta 700007.

Lagan Jute Machinery Co., Pvt. Ltd., 24-B, Park St., Calcutta 700016.

Machine & Mill Stores Corpn. Pvt. Ltd., 76/19 Benares Rd., Howrah 700001.

Nipha Machinery Manufrs. Pvt. Ltd., 25, N. Subhas Rd., Calcutta 700001.

Oriental Electric & Engg. Co., National Tobacco Bldg., 1, Old Court House Corner, Calcutta 700001.

Sandev & Co., 16, G. C. Avenue, Calcutta 700013.

Spin-Well Pvt. Ltd., 6, Dilarjang Rd., Cossipore, Calcutta 700002.

Star Textile Engg. Works Ltd., Dhanraj Mahal, Apollo Bunder, Bombay 400039.

Texwell Pvt. Ltd., 23A, N. Subhas Rd., Calcutta 700001.

Usha Enterprises, 3A, Chowringhee Place, Calcutta 700013.

KITCHEN AIDS & EQUIPMENTS

ARV Inds., 533, Poonamallee High Rd., Madras 600084.

Ashok Metal Works, G/83, Sarvodayanagar, 1st Panjrapole Lane, Bombay 400004.

Balsara Hygiene Products, 43, Nagindas Master Rd., Bombay 400023.

Domestic Appliances, Post Box No. 3330, New Delhi 110014.

Escee Kitchenaid, Shreenivas House, 98, Dattaram Lad Mrg., Kalachowki, Bombay 400033.

Globe Super Parts, 14/1, Mathura Rd., Faridabad 121001.

Guru Nanak Anodising Works, Patel Chowk, Jullundur 144001.

India Metal Inds., 139/141, C. P. Tank Rd., Bombay 400004.

Indoair Ind., 48/49, Mun.-Ind. Estate, Off E. Moses Rd., Worli, Bombay 400018.

Industrial Kitchen Equipment & Allied Agencies, Babulnath Trust Bldg. No. 2, Block 30, Chowpatty, Bombay 400007.

Mahavir Bros., Triveni House, Opp. 13th Lane, Bombay 400004.

Mazda Mfg. Co., 6, Datta Mandir Rd., Bhandup, Bombay 400078.

Naik Bros., 358, Mint St., Madras 600001.

Nat Steel Equipment Pvt. Ltd., 9, Ambekar Marg, Dadar, Bombay 400014.

Natural Gas Co. Pvt. Ltd., 53/57, Laxmi Bldg., Sir P. Mehta Rd., Bombay 400001.

Shree Shakti Mfg. & Mktg. Co., 11/145, Sastry Rd., Ramnagar, Coimbatore 641009.

Silver Light Nirlepware Inds. Pvt. Ltd., 1178, Narayan Cottage, G. D. Ambekar Mrg., Parel, Bombay 400012.

Sri Raja Lakshmi Indl. Agency, 30/1, S. J. Park Rd., Bangalore 560002.

Thakar Equipment Co., 66, Okhla Ind. Estate, New Delhi 110020.

Trupti Ind., Roxy Chambers, New Queen's Rd., Bombay 400004.

LABELS (METAL)

Bharat Industrial Arts, B-11, H.M.T. Ind. Estate, Bangalore 560031.

Bieri Pvt. Ltd., Bieri Estate, Sion, Bombay 400022.

Calcutta Label Works, 35, J. Bajaj St., Calcutta 700007.

Excel Process Pvt. Ltd., 22-D, S. A. Brelvi Rd., Bombay 400023.

Falgoon Process, 36, Nandanvan, Opp. Ralliwolf, Agra Rd., Mulund, Bombay 400080.

Ilka Metal Labels Mfg. Co., 1, British Indian St., Calcutta 700001.

Kshirod Mohan Mullick & Sons, 48, M. G. Rd., Calcutta 700009.

Mark-O-Prints (India), 51, Ideal Ind. Estate, Mathuradas Mill Compd., Bombay 400013.

Metacarv, 40, Mun. Ind. Estate, K. Khadye Mrg., Bombay 400011.

Metagraphs Pvt. Ltd., 164, Senapati Bapat Mrg., Bombay 400016.

Metal & Transfer Labels Mfg. Co., 13/21, Panjrapole 3rd Le., Bombay 400004.

Mragna Metal Label Mfg. Co., 8-A, Parvati Ind. Estate, Sun Mill Le., Bombay 400013.

New Krishna Metal Arts, 6A, Parekh Ind. Estate, S. V. Rd., Kandivli, Bombay 400067.

Print-O-Graph, 30-AB, Piramal Ind. Estate, S. V. Rd., Goregaon (W.), Bombay 400062.

Pune Petagraph, M.I.D.C., Plot No. T113, Bhosari B Block, Pimpri Ind. Area, Village Bhosari 411026, Pune Dist.

Sridevi Inds., 219, G. Naick St., Madras 600001.

LABORATORY CHEMICALS

Amrut Industrial Products, Chemical House, Agra Rd., Thane 400061.

Belani Fine Chemicals Pvt. Ltd., Kasturi Bldg., Popatwadi, Kalbadevi Rd., Bombay 400002.

Laboratory Chemical Co., 55-114, B.R.B.B. Rd., Calcutta 700001.

National Chemical Corpn., B. No. 9, Devkaran Mansion, Princess St., Bombay 400002.

Prakash Chemical Industries, 31, Duncan Causeway, Bombay 400022.

S. D's Lab.-Chem. Industry, Mehta House, Mathew Rd., Bombay 400004.

LABORATORY EQUIPMENT—SURVEY, ANALYTICAL, METEOROLOGICAL AND EDUCATIONAL LABS.

Andhra Pradesh

Andhra Scientific Co. Ltd., Cantt. Rd., Machilipatnam 521001.

Scientific Engg. House Pvt. Ltd., C-7, Indl. Estate, Kachiguda, Hyderabad 500027.

Delhi

Apothecaries' Sundries Manufg. Co., 19, Amrit Kaur Market, New Delhi 110055.

Ashoka Scientific Ind., 4, New Lajpat Rd. Market, Delhi 110006.

Asian Scientific Instruments Co., 12, S. Basti Harphool Singh, Sadar Thana, Delhi 110006.

Batra & Co., A-136, Defence Colony, New Delhi 110024.

Chhabra Scientific Ind., 1928, Malka Ganj Rd., Delhi 110007.

Continental Sales Syndicate, T-715, D.C.M. Rd., Delhi 110006.

Delhi Scientific Works, Ajmeri Gate, Delhi 110006.

Emkay Scientific Corpn., 36, U. B. Jawahar Nagar, Delhi 110007.

K.L.K. Scientific Ind., 313, Dhir Pur, Nirankari Colony, Delhi 110009.

National Instruments Ltd., 603, Ansal Bhawan, K. Gandhi Marg., New Delhi 110001.

Neulite Engg. Corpn, 63, Hari Nagar Ashram, Mathura Rd., New Delhi 110014.

Optical Instrumentation (India), 21, Deshmesh Pura, Karol Bagh, New Delhi 110005.

P.S.R. Chemical Inds., 302, Tilak Bazar, Delhi 110006.

Precision Scientific Equipment Corpn., 16, Patel Rd., S. Patel Nagar, New Delhi 110008.

Rashtriya Optical Traders, 4, Darya Ganj, New Delhi 110002.

Towa Optics (India) Pvt. Ltd., 4, Darya Ganj, New Delhi 110002.

Up-to-date Optical Works, 21, Deshmesh Pura, Karol Bagh, New Delhi 110005.

Gujarat

Hindustan Ophthalmic Lens Manufrs., Opp. Kothi Bus Stand, Vadodara 390001.

Quality Engg. Works, Behind Vadi Vegetable Market, Pratapnagar Rd., Vadodara 390004.

Surgical Equipment Manufg. Co., 1 B. Kalpana Bhoomi Estate, Dhudeshwar Rd., Ahmedabad 380001.

Sushima Inds., 3, Vaibhav Ind. Estate, Near Telecom Factory, Sion-Trombay Rd., Deonar, Bombay 400088.

Systronics, 89-92, Ind. Area, Naroda, Ahmedabad 382330.

Vitro Ceramics, 157, Vithal Udyog Nagar, Vallabh Vidyanagar 388120.

Karnataka

British Physical Labs. India Ltd., M.G. Rd., Bangalore 560001.

Govt. Electric Factory, Mysore Rd., Bangalore 560001.

Maharashtra

Associated Instruments Manufrs. (India) Pvt. Ltd., India House, W. Hirachand Marg, Bombay 400001.

Blue Steel Engrs. Pvt. Ltd., A to Z. Indl. Estate, Fergusson Rd., Bombay 400013.

Borosil Glass Works Ltd., 44, Khanna Construction House, M. A. Gaffar Rd., Worli, Bombay 400018.

Cintex Ind. Corpn., 237, Jaigopal Ind. Estate, Bhavanishanker Cross Rd., Dadar, Bombay 400028.

Control Dynamics, 3, Shyama, Uttam Socy., Bombay 400071.

Delhi Scientific Works, 12, J. B. Nagar, Andheri, Bombay 400059.

Deluxe Enterprise, A/3/2, Avanti, Flank Rd., Sion, Bombay 400022.

Dubash Freres & Co., Victoria Bldg., Parsee Bazar St., Bombay 400001.

Eltron India, 13, St. No. 9, MIDC, Bombay 400093.

Indian Equipment Corpn., D-20, Udyog Sadan No. 2, MIDC., Andheri East, Bombay 400093.

Kumar & Co., 31, Old Post Office Lane, Kalbadevi Rd., Bombay 400002.

Labequip Corpn., 15, Gulbahar, Barrack Rd., Bombay 400002.

Lab-Hosp. Corpn., C/9, Laghu Udyog Kendra, I. B. Patel Rd., Goregaon East, Bombay 400063.

Lawrence & Mayo (India) Pvt. Ltd., 274, Dr. D. Naoroji Rd., Bombay 400001.

M. Shah & Co., Kanji Mansion, 311, S. Patel Rd., Bombay 400004.

Manilal Maganlal & Co., 263-A, J. Shankar Rd., Bombay 400004.

Meco Instruments Pvt. Ltd., Bharat Indl. Estate, T.J. Rd., Bombay 400015.

Metzer (India) Optical Instruments Co., Himalaya House, Palton Rd., Bombay 400001.

Modern Scientific Ind., 58, C. Govt. Ind. Estate, Kandivli West, Bombay 400067.

National Instruments Ltd., K. Parikh House, 47, P. D'Mello Rd., Bombay 400009.

Plasticables Pvt. Ltd., Lentin Chambers, 36, Dalal St., Bombay 400023.

Polar Ind. Corpn., Devkaran Mansions, 43, Princess St., Bombay 400002.

Raj-Der-Kar & Co., Bhau S. Desai Wadi, Masjid Lane, Bombay 400028.

Ravindra Heraeus Pvt. Ltd., Poonam Chambers, Block 601/A, B, Shivsagar Estate, Worli, Bombay 400018.

Remi Udyog, 325, Kalbadevi Rd., Bombay 400002.

Rolla Ind. Corpn., Sainath Ind. Estate, Shed "E", Off Aarey Rd., Goregaon East, Bombay 400063.

Scientific & Technical Home, 443, Bhadkamkar Marg, Bombay 400004.

Scientific Sales Corpn., 70/72, Chakla St., Bombay 400003.

Silica Ware Pvt. Ltd., 54, C. Chotani Estate, Proctor Rd., Bombay 400007.

Star Scientific, Raut Ind. Estate, 424A, S. Bapat Mrg., Bombay 400016.

Technical Instruments Manufrs. (India) Pvt. Ltd., Plot 6 A, Shanti Nagar, Santacruz East, Bombay 400055.

Tempo Ind. Coprn., 1, Lamington Chambers, 394, Dr. Badkamkar Marg, Bombay 400004.

Thermex Indl. & Laboratory Instruments Co., 107-B, Satyam Ind. Estate, Govandi Stn. Rd., Bombay 400088.

Thermolab Equipment Co., K. Guruprasad Soc., Hanuman Rd., Bombay 400057.

Udeyraj & Sons, 158, K. M. Sharma Marg, Bombay 400002.

Unique Trdg. Corpn., 221, S. Devji St., Bombay 400003.

Universal Scientific Glass Apparatus Manufg. Ind., 603, J. Shanker Sheth Rd., Bombay 400002.

Vibronics Pvt. Ltd., Kurla Indl. Estate, Shastri Rd.' Bombay 400086.

Vikas Glass Apparatus Co., 113, Shivam Ind. Estate, Deonar, Bombay 400088.

Tamil Nadu

Altech Industries, 471, P. N. Palayan Rd., P.O. Ganapathy, Coimbatore 641006.

Instruments & Apparatus Pvt. Ltd., D-20, Indl. Estate, Madras 600058.

Instruments & Chemicals Pvt. Ltd., 334, Thambu Chetty St., Madras 600001.

National Instruments Ltd., 150A/3, Anna Salai, Madras 600002.

West Bengal

Arora Mathey Ltd., 166, N. Subhas Bose Rd., Tollygunj, Calcutta 700040.

Ascu Hickson Ltd., 7-A, Elgin Rd., Calcutta 700020.

Atlas Industrial Stores, 89, N. Subhas Rd., Calcutta 700001.

Darbara Singh & Sons, 14, Bow Bazar St., Calcutta 700012.

East End Engineers, 52, B. Bose Ave., Calcutta 700004.

Eastern Ind. Trdg. Corpn., 92, B. Chittaranjan Ave., Calcutta 700012.

Eastern Scientific Co., 4, College St., Calcutta 700012.

Geologists' Syndicate Pvt. Ltd., 137, B. R. Basu Rd., Calcutta 700001.

Killearn & Co., 106/C, Raja Dinendra St., Calcutta 700004.

National Instruments Ltd., 1/1, Raja S. C. Mullick Rd., Jadavpur, Calcutta 700032.

Overseas Trade Corpn., 133, Canning St., Calcutta 700001.

Premier Scientific Glass Co., 26/2A, P. K. Tagore St., Calcutta 700006.

Scientific Glass Works, 35, G. Chatterji Rd., Calcutta 700002.

Scientific Industries, 51/1, Raja Dinendra St., Calcutta 700009.

Scientific Repairs & Trdg. Co. Pvt. Ltd., 13, Canal St., Calcutta 700014.

Scientific Supplies, 55, Canning St., Calcutta 700001.

Scientific Syndicate, 172, B. P. Ganguly St., Calcutta 700012.

LADDERS

Eshak Dada Bamboowala, 72, I. M. Merchant Rd., Khadak, Bombay 400009.

Famous Ladders Mfg. Co., 128–130, Victoria Rd., Byculla, Bombay 400027.

General Aluminium Corpn., 10, Tumkur Rd., Bangalore 560022.

Jeewanlal (1929) Ltd., 127, Mint St., Madras 600001.

King Ladders Mfg. Co., 5-C, Sonal Indl. Estate, off Saki-Vihar Rd., Bombay 400072.

Simplex Timber Mart, 51, Panchratna, Next to Roxy Cinema, Bombay 400004.

LAMINATED PRODUCTS

Bakelite Hylam Ltd., Sanatnagar, Hyderabad 500018.

Bengal Engg. Co. Pvt. Ltd., 12, Dalhousie Sq. East, Calcutta 700001.

Caprihans (I) Ltd., Block D, Shiv Sagar Estate, Dr. A. Besant Rd., Bombay 400018.

Decorative Laminates (India) Pvt. Ltd., Yelval Rd., P.O. Belvadi, Mysore 570005.

CAPRIHANS INDIA LIMITED

Manufacturers of :

SUNGLOSS Decorative Laminates
SUNLAM Industrial Laminates
SUNVIC Rigid PVC Sheets
SUNFLEX PVC Sheeting
SUNTEX PVC Leather Cloth
SUNSTRENE High Impact Polystyrene Sheets
LUSTRACOTE Art Paper, Chromo Paper and Art Card

BLOCK 'D', SHIV SAGAR ESTATE,
Dr. Annie Besant Road, Worli,
BOMBAY-400 018.

Telephones : 391961-62-63-64-65 & 66
Telex : 011-3169
Grams : " CAPRIHANS ".

Branches :
NEW DELHI – CALCUTTA – MADRAS AND AHMEDABAD.

Diamond Plastic Co., 108/109, Devaraja Mudali St., Madras 600003.

Formica India Ltd., Sambhaji Mansion, 1260/A, Jangli Maharaj Rd., Pune 411004.

Guardian Plasticote Ltd., 12, Ho Chi Minh Sarani, Calcutta 700016.

Indecor Laminates Pvt. Ltd., B-45, Ind. Estate, Sanatnagar, Hyderabad 500018.

Industrial Stores Trading Co., 329, Thambu Chetty St., Madras 600001.

Paradise Electronic Inds., 29, Mahendra Ind. Estate, Sion East, Bombay 400022.

Phenoweld Polymer Pvt. Ltd., Saki Vihar Lake Rd., Bombay 400072.

Ranvir & Co., 262, B. B. Ganguly St., Calcutta 700012.

Shiv Laminating & Coating Pvt. Ltd., Jolly Bhavan No. 2, New Marine Lines, Bombay 400020.

Veneers & Laminations (India) Ltd., M.G. Rd., P. Box No. 1009, Ernakulam, Cochin 682011.

Wood Polymers Ltd., 59, Bombay Samachar Marg, Bombay 400023.

Weldekor Laminates Pvt. Ltd., 59, A. Rehman St., Bombay 400003.

Wudlam, Nemani Bldg., Opp. Rly. Stn., Santacruz West, Bombay 400054.

LAMPS & ACCESSORIES

(See Electrical Lamps and Accessories in this list.)

LANTERNS & STOVES

Bangalore Chemical & Manufg. Co. Pvt. Ltd., Ind. Estate, Rajajinagar, Bangalore 560044.

India Ind. Works Pvt. Ltd., 100/1, Brindaban Mullick Lane, Howrah 711101.

J. K. Dey & Sons, 13, Old China Bazar St., Calcutta 700001.

Metal Stamping Co., Plot A35, Road 10, Wagle Ind. Estate, Thane 400604.

Optimohar Inds. Pvt. Ltd., Manu Mansion, 16, S. Bhagat Singh Rd., Bombay 400023.

Pitambardas Lallubhai & Co., 86, Kansara Chawl, Kalbadevi Rd., Bombay 400002.

Reliable Metal Works, 43, R. S. Nimbkar Mrg., Bombay 400008.

Shah Bros., Shirin Mansion, 14, Kolsha Lane, Bombay 400003.

LATHES

Delhi

Chanana Bros., 26, Okhla Indl. Estate, New Delhi 110020.

[illegible] Machine Tools Corpn., B-44, Mayapuri Phase I. New Delhi 110027.

Gujarat

Ashok Machine Tools Mfg. Co., Cross Rd., Rakhial, Ahmedabad 380021.

Batliboi & Co., P.O. Baroda Rayon 394220. Surat Dist.

Hind Mechanical Corpn., New Market, Surendranagar 363001.

Karnataka

Mysore Kirloskar Ltd., P.O. Yantrapur 577602.

Prakash Home Industries, 6, Independence Rd., Belgaum 590002.

Kerala

H. M. T., Kalamasseri 683104. (Via Alwaye).

Maharashtra

Alex Machine Tools, 16, Sidhpura Indl. Estate, Bombay 400062.

Bharat Imports & Exports, 6, Oak Lane, Machine House, Bombay 400001.

Cooper Engg. Ltd., Construction House, Ballard Estate, Bombay 400038.

Kirloskar Bros. Ltd., Udyog Bhavan, Tilak Rd., Pune 411002.

Machinery Mfg. Corpn., 68, Nagindas Master Rd., Bombay 400001.

Machines & Tools Corpn. of India, Lentin Chambers, Dalal St., Bombay 400023.

Popular Machinery Corpn., Agra Bldg., Oak Lane, Bombay 400023.

Shubh Machinery (Sales) Corpn., 15, Bank St., Bombay 400023.

Tata Engg. & Locomotive Co. Ltd., Chinchwad, Pune 411019.

Traub India Pvt. Ltd., Pimpri P.F., Post Bag 2, Pune 411018.

Punjab

Atlas Engg. Industries, G. T. Rd., Batala 143505.

Beco Engg. Co. Ltd., G.T. Rd., Batala 143505.

Indian Turn O Mat Industries, 22/23 B, Indl. Area B, Ludhiana 141003.

National Brass Engg. Foundry, 35, Indl. Area, Jullundur 144005.

Prime Machine Tools, 826, Indl. Area B, Ludhiana 141003.

R. K. Machine Tools Pvt. Ltd., Indl. Area A, Ludhiana 141001.

Sharda Foundry and Engg. Works, G.T. Rd., Batala 143505.

Tamil Nadu

Gedee Weiler Pvt. Ltd., Gopal Bagh, 317, Avanashi Rd., Coimbatore 641018.

Madras Machine Tool Mfrs. Ltd., Singanallur, Coimbatore 641005.

P. S. G. Indl. Instt., Avanashi Rd., Coimbatore 641018.

West Bengal

Textile Machinery Corpn. Ltd., P.O. Belgharia 700056. 24 Parganas.

LAUNDRY EQUIPMENT

D. Parikh Engg. Works, 115, Co-op. Indl. Estate, M. Vasanji Rd., Near Saki Naka, Bombay 400059.

Snowhite Engrs. Pvt. Ltd., Guru Govind Singh Mrg., New Delhi 110005.

LEAD & LEAD PRODUCTS

A. K. Motiwala, 145, Lohar Chawl, Bombay 400002.

Gemini Corpn., 99, Surat St., Bombay 400009.

Hooseini Metal Rolling Mill Pvt. Ltd., 66–68, N. Dhuru St., Bombay 400003.

K. K. Nag Pvt. Ltd., D-3, Bhosari Ind. Estate, Pimpri, Pune 411018.

LEATHER & LEATHER PRODUCTS

Andhra Pradesh

Vinyllora Ind. Pvt. Ltd., 58/3, Ranigunj Circle, M. Gandhi Rd., Secunderabad 500003.

Delhi

Nava Bharat Enterprises Pvt. Ltd., 101-A, Surya Kiran, K. Gandhi Marg, New Delhi 110001.

Vijaya Leather Inds. (Regd.), 142, Ghaffar Mkt., Karol Bagh, New Delhi 110005.

Gujarat

Beltex Pvt. Ltd., Ellis Bridge, Ahmedabad 380002.

International Chrome Leather Co., Santram Bldg., Nadiad 387001.

Kumar Inds., 19, Indl. Area, Naroda, Ahmedabad 382330.

Pickers Ltd., Ellis Bridge, Ahmedabad 380006.

Tikelon India, 2, Harshid Chambers, Ashram Rd., Ahmedabad 380013.

Haryana

Bata Shoe Co. Ltd., Faridabad 121001.

Kerala

Vanjinad Leathers Ltd., Post Box 1751, Cochin 682016.

Maharashtra

Art Home, 4, Jerbai Baug, Byculla, Bombay 400027.

Artistic Leather Goods & Accessories, National House, Tulloch Rd., Bombay 400039.

Bharat Leather Works, 48, Sleater Rd., Bombay 400007.

Bombay Leather Goods Depot, 14, Shamseth St., Bombay 400002.

Bright Leather Ind., 338 A, Rehman St., Bombay 400003.

Dharampur Leather Cloth Co. Ltd., 10, Chowpatty Sea Face, Bombay 400007.

Gold Filled Leather Works, 157–161, S. Gandhi Mrg., Bombay 400002.

Jayant Ind. Home, 107, Dhabbo St., Bombay 400003.

Kathiawar Inds. Ltd., 19, Bank St., Bombay 400023.

Leather Art Ind., Swadeshi Market, Bombay 400002.

Maharashtra Leather Works, 20, Nishanpada Rd., Bombay 400009.

National Leather Cloth Mfg. Co., Akurli Rd., Kandivli East, Bombay 400067.

Noble Leather Works, 82-86, A. Rehman St., Bombay 400003.

Pioneer Leather Works, Sitaram Bldg., Crawford Market, Bombay 400001.

Premier Leather Kraft, 35, Hamam St., Bombay 400001.

Santosh Leather Corpn., Poonawala Chawl, Dharavi, Bombay 400017.

Sharda Manufrs., 32, 3rd Bhoiwada Lane, Bombay 400002.

Super Leather Works, 356, A. Rehman St., Bombay 400003.

Western India Tanneries Ltd., 2-A, Dharavi Rd., Bombay 400017.

Punjab

Bawa Skin Co., P.O. Ramdaspura Jullundur Dist.

Robinson Sports, Basti Nau, Jullundur 144001.

Tamil Nadu

A. Abdul Shukoor & Co., 35, Broadway, Madras 600001.

Chrome Leather Co. Pvt. Ltd., 9, Davidson St., Madras 600001.

Dindigul Co-op. Leather Works Ind., Society Ltd., Dindigul 624001.

Gordon Woodroffe Leather Manufg. Co. Ltd., 1/21, North Beach Rd., Madras 600001.

Jayam Trading Corpn., 26, K. Sadayappan St., Madras 600003.

M. A. Khizar Hussain & Sons, 6, V. V. Koil St., Periamet, Madras 600003.

Maypar Leather Mfg. Co., Pvt. Ltd., 100, Poonamallee High Rd., Madras 600010.

Sreenivas & Co., 10, Sydenhams Rd., Madras 600003.

T. Abdul Wahid & Co., 18–A, Vepery H. Rd., Madras 600003.

Tiruchy Leather Goods Producers Ind. Co-op. Society, Tiruchirapalli 620001.

Usman Sharif & Co., Post Box 1926, Madras 600001.

Uttar Pradesh

Kohli Indl. Corpn. Pvt. Ltd., 13/384, Civil Lines, Kanpur 208001.

Pioneer Tanneries & Glue Works, Jajman, Kanpur 208001.

Prime Products Ltd., P. Box No. 80, Kanpur 208001.

Saddleways, 34/119, Chawal Mandi, Kanpur 208001.

Surisons & Co., Post Box No. 410, Kanpur 208001.

Tannery & Footwear Corpn. of India, 13/400, Civil Lines, Kanpur 208001.

Webbing & Belting Factory Ltd., G. T. Rd., Ghaziabad 201001.

West Bengal

Arts & Prints Pvt. Ltd., 31, Park Mansions, Park St., Calcutta 700016.

Birkmyre Bros. Ltd., 87, Stephen House, Dalhousie Sq. East, Calcutta 700001.

Calcutta Leather & Allied Products Marketing Co-op. Society Ltd., 13-S, Tangra Rd., Calcutta 700014.

Chinese Leather Syndicate Ltd., 56, South Tangra Rd., Calcutta 700039.

East Asia Skin Corpn., 20, Tiretta Bazar St., Calcutta 700073.

Eastro Leathers, 62, Bentinck St., Calcutta 700001.

I.E.C. Ltd., 47, South Tangra Rd., Calcutta 700039.

Industrial Leather & Rubber Works, 10, Canning St., Calcutta 700001.

International Tanning Industries, 4, Ghulam Jilani Khan Rd., Calcutta 700039.

J. H. Fenner & Co. (India) Pvt. Ltd., 56-D, Free School St., Calcutta 700016.

Morrison & Cottle Pvt. Ltd., 30-G, J. Nehru Rd., Calcutta 700016.

National Tannery Co. Ltd., 1, Middleton St., Calcutta 700001.

P. Basak & Co., 9, Chidam Modi Lane, Calcutta 700006.

Tewari International, 14, Ch. Chowk St., Calcutta 700013.

LIFTS

(See under Electric Lifts in this list.)

LIME & ALLIED PRODUCTS

Avon Trading Corpn., 122, Hind Rajasthan Bldg., 95, D. Phalke Rd., Bombay 400014.

Bharat Colour Trdg. Co., 111, Kika St., Bombay 400004.

Burma Lime & Chemical Co. Ltd., 22/3, Jhama Pukur Lane, Calcutta 700009.

Dyershine & Chemicals Pvt. Ltd., 10, Alipur Rd., Delhi 110054.

Laxmi Lime Mineral Co., Hararwala Bldg., Islampura, Bombay 400004.

LIME KILNS

S. N. Sunderson (India) Pvt. Ltd., 1/A, Vansittart Row, Calcutta 700001.

Westorwork Engineers Ltd., 5-D, Vulcan Ins. Bldg., Veer Nariman Rd., Bombay 400020.

LOCKS & FITTINGS

De's Lock Ind., 31, Haripada Dutta Lane, Calcutta 700033.

Godrej & Boyce Mfg. Co. Ltd., Godrej Bhavan, Home St., Bombay 400023.

Honlock Inds., Post Box 93, Aligarh 202001.

Locks & Padlocks (India), Chheda Engg. Works, Interlink Ind. Estate, Caves Road, Jogeshwari (East), Bombay 400060.

R. P. Locks Co., XIII/5612, Gandhi Mkt., Sadar Bazar, Delhi 110006.

Security Equipment Mfrs. Ltd., Post Box 330, Ahmedabad 380001.

Shri Krishna Ind., 4, Ind. Estate, Kanpur 208012.

Tiger Locks Ltd., Marris Rd., Aligarh 202001.

Vaultex Inds., 4/24, Indl. Estate, Gorwa Rd., Vadodara 390003.

MACHINE POLISHING CLOTH

Lotus Industries Ltd., 16, Coral Merchant St., Madras 600001.

MACHINE TOOLS

(See 'Tools — Machine' in this list.)

MACHINERY

Alfred Herbert (India) Ltd., Kaiser-i-Hind Bldg., Sprott Rd., Ballard Estate, Bombay 400038.

Associated Engg. Co., Ghaswala Estate, Jogeshwari, Bombay 400060.

Balmer Lawrie & Co. Ltd., 21, Netaji Subhas Rd., Calcutta [illegible].

C. Bole & Co., 61, Narayan Dhuru St., Bombay 400003.

Engg. & Industrial Foundry Co., Mettupalayam Rd., Coimbatore 641011.

Gujarat Machinery Mfrs. Pvt. Ltd., Churchgate Chambers, V. Nariman Rd., Bombay 400001.

HBD Machines Mfg. Corpn., 120, Bharat Ind. Estate, Tokersi Jivraj Rd., Bombay 400015.

H. S. Sobha Singh & Sons, Nagin Mahal, 82, Veer Nariman Rd., Bombay 400020.

Hindustan Engg. Inds., 234, C. M. Azad Rd., Bombay 400008.

Indo-German Shoe Machine Co. Pvt. Ltd., 107, Govt. Indl. Estate, Bombay 400067.

Industrial Machinery Mfrs., 14-B, Kurla Industrial Estate, Near Narayan Nagar, Ghatkopar, Bombay 400086.

Industrial Machinery Mfrs. Pvt. Ltd., Near New Cotton Mills, Amraiwadi, Ahmedabad 380008.

Jamshedpur Engg. & Machinery Mfg. Co. Pvt. Ltd., Rly. Stn. Rd., Tatanagar, Jamshedpur 831004.

Lynx Machinery Ltd., 104, Ultadanga Main Rd., Calcutta 700067.

Machinery Mfg. Corpn., 68, Medows St., Bombay 400023.

Mechano International, 236, Hind Rajasthan Bldg., D. Phalke Rd., Dadar, Bombay 400014.

Meghraj Machines, 2/9, Ind. Estate, Gorwad, Vadodara 390003.

National Machinery Mfg. Ltd., P. Box 37, Vadodara 390001.

Orum Engg. Co., 104, Govt. Indl. Estate, Bombay 400067.

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Phones : 312294-384302-383510. Grams : " BALMER ".
Telex : 31-3512-BAMR-IN.

93 1, Grain Market, Narain Bhavan, Goutam Budh Marg (Latouche Road), Lucknow 266 001.
Phone : 42664. Grams : " BALMER ".

Kedar Bhavan, S. P. Verma Road, Patna 800 001.
Phone : 21289. Grams : " BALMER ".

5-3-337, Rashtrapati Road, Secunderabad 500 003.
Phone : 73065. Grams : " BALMER ".

Directors :

A. P. Verma (Chairman & Managing Director).
A. P. Bhalla.
[illegible]
[illegible]
[illegible]
[illegible]

General Manager, Bombay : A. K. Seth.

Machinery Manufacturers
& Dealers

C. BOLE & CO.

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Bombay 400 003.

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Works : Vikhroli, Bombay 400 083.
Phones : 324350, 329641. Grams : "CIBOLECO."

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Bell Building, Sir P. M. Road, Bombay 1. Phone: 252211-12. Gram: SUKAN.

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Subject of :
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Head Office :

Bell Bldg., Sir P. M. Road, Bombay 400 001.
Phones : 252211 & 252212. Grams : "SUKAN".
Telex : 011-3155.

Branches :

- 'Power Court', 20-A, Camac Street, Calcutta 700 016. Phone : 440652. Grams : "SUKAN". Telex : 021-7792.
- 44-E Block, Connaught Place, New Delhi 110 001. Phone : 45288 40593. Grams : "PERMATOOL". Telex : 031-3114.
- No. 1, Smith Road, Mount Road, Madras 600 002. Phone : 87237. Grams : "PERMATOOL". Telex : 041-7252.
- 23, Grant Road, Bangalore 560 001. Phone : 578352. Grams : "SUKAN". Telex : 0845-424.
- 5-2-175/2, Rashtrapati Road, Secunderabad 500 003. Phone : 77007. Grams : "SUKAN". Telex : 015-441.

Patil Machines Pvt. Ltd., 107, Arun Chambers, Tardeo Rd., Bombay 400034.

Perfect Machine Tools Co. Pvt. Ltd., Bell Bldg., Sir P. M. Rd., Bombay 400001.

Pioneer Engg. Works, Naroda Rd., Ahmedabad 380002.

Prakash Fabricators, Post Box 207, Kolhapur 416001.

Premier Machines Pvt. Ltd., 59, Najafgarh Rd., New Delhi 110015.

SLM-Maneklal Inds. Ltd., Mistry Bhavan, D. Vachha Rd., Bombay 400020.

Santosh Ind., A-1, Sona Udyog, Parsi Panchayat Rd., Andheri (E), Bombay 400069.

Saraswati Indl. Syndicate Ltd., Yamunanagar 135001. Ambala Dist., Haryana.

Sardar Electric & Engg. Co., Seksaria Ind. Estate, S. V. Rd., Malad, Bombay 400064.

Teknoworks (India), L. B. Shastri Marg, Bhandup, Bombay 400078.

Triveni Engineering Works Ltd., NSIC Building, P.O. Udhyognagar, Naini 211008. Allahabad Dist.

Utkal Machinery Ltd., 41, Chowringhee Rd., Calcutta 700016.

MAGNETIC PARTICLE TESTING EQUIPMENT

Orms Pavan India, 26, Rameshwar Shaw Rd., Calcutta 700014.

MAGNETS

Auroville Electronics & Allied Ltd., P.O. Box 20, Pondicherry 605001.

Bengal Engg. Co. Pvt. Ltd., 12, Dalhousie Sq. East, Calcutta 700001.

East Coast Enterprises Ltd., 33, Brabourne Rd., Calcutta 700001.

Jaipur Metals & Electricals Ltd., Near Railway Station, Jaipur 302001.

Permanent Magnets Ltd., 20, Old Custom House Rd., Bombay 400001.

Usha Telehoist Ltd., 14, Princep St., Calcutta 700072.

MARBLE CUTTING & POLISHING MACHINE

Machinery & Equipment Manufrs. Pvt. Ltd., Rakhia Rd., Gomtipur, Ahmedabad 380021.

MARBLES & TILES

Abu Marble Mining Pvt. Ltd., 59, R. A. Kidwai Rd., Bombay 400019.

Acme Tiles Manufg. Co., 49, M. Azad Rd., Bombay 400004.

Bharat Tiles & Marble Pvt. Ltd., 32, Apollo St., Bombay 400023.

Bhor Inds. Ltd. (Bldg. Projects Divn.), 386, V. Savarkar Mrg., Bombay 400025.

Duncan Stone Co., 500, Maulana Azad Rd., Bombay 400004.

Esco (Poona) Pvt. Ltd., 2432, East St., Pune 411001.

Jain Marble Factory, P. Box 20, Makrana 341505 (Rajasthan).

Mahalakshmi Inds., B-4, Mettupalayam Ind. Estate, Pondicherry 605001.

N. M. Mehta & Co., 4/10, Old Custom House Rd., Bombay 400001.

National Tiles & Ind. Pvt. Ltd., 31, Hamam St., Bombay 400001.

New India Mosaic & Marble Co. Pvt. Ltd., Ind. Estate, Lalbaugh, Bombay 40001[illegible].

Polymarble Mfg. Co. Pvt. Ltd., Sangli Bank Bldg., P. Nariman St., Bombay 400001.

Prakhasham Civil Engg. Inds., C-41, Ind. Estate, Yadavagiri, Mysore 570002.

S. K. Tile Inds., 43, Tardeo Airconditioned Mkt., Bombay 400034.

Somany Pilkingtons Ltd., 2, Red Cross Place, Calcutta 700001.

Swastik Marble Inds., Rupam, 152, Jawaharnagar, Goregaon West, Bombay 400062.

Tara Tiles, C/o Post Box 201, Shahupuri, Kolhapur 416001.

Tolia Tiles Inds., 84, Bombay Timber Mkt., Reay Rd., Bombay 400010.

MARINE CRAFTS

Aero Marine Ind., Super A–7, Indl. Estate, Madras 600032

Andrew Yule & Co. Pvt. Ltd., 32, Nicol Rd., Ballard Estate, Bombay 400038.

Chowgule & Co. Pvt. Ltd., Chowgule House, Marmugao Harbour 403601. Goa.

MARINE ENGINES

Garden Reach Engineers & Shipbuilders Ltd., 43/46, Garden Reach Rd., Calcutta 700024.

MATERIAL HANDLING EQUIPMENT

CONVEYORS

(See under 'Conveyors' in this list.)

FORK LIFT TRUCKS, LIFTING JACKS

Andhra Pradesh

Krishi Engines Pvt. Ltd., Sanatnagar, Hyderabad 500018.

Bihar

Tata-Robinson Fraser Ltd., 11, Station Rd., Jamshedpur 831007.

Gujarat

Gujarat Ind. Trucks Ltd., Surat Navsari Rd., P.O. Baroda Rayon 394220. Surat Dist.

Maharashtra

Brady & Morris Engg. Co., Ltd., 12, V. Nariman Rd., Bombay 400001.

Godrej & Boyce Manufg. Co. Pvt. Ltd., Godrej Bhavan, Home St., Bombay 400023.

Hoist-O-Mech Ltd., Industry Manor, Opp. Bengal Chemicals, Bombay 400025.

Ingersoll-Rand (India) Ltd., Maybaker House, S. K. Ahire Marg, Bombay 400025.

Jost's Engg. Co. Ltd., Great Social Bldg., Sir P. Mehta Rd., Bombay 400001.

Larson & Toubro Ltd., L & T House, Ballard Estate, Bombay 400038.

Mahindra Owen Ltd., 148, Bombay-Pune Rd., Pimpri, Pune 411018.

Omega Engg. Co., 149, Gamdevi Rd., Bombay 400078.

Premier Automobiles Ltd., Construction House, W. Hirachand Marg, Bombay 400038.

Tata Engg. & Locomotive Co. Ltd., Bombay House, Homi Mody St., Bombay 400023.

Voltas Ltd., Volkart Bldg., Graham Rd., B. Estate, Bombay 400038.

Wood Packers, 80, Bombay Timber Mkt. Ltd., Reay Rd., Bombay 400010.

Tamil Nadu

Conveyor Equipment Co. Pvt. Ltd., 3, Race Course Rd., Guindy, Madras 600032.

Vikram & Co., No. 2, Lattice Bridge Rd., Madras 600020.

West Bengal

Arun Industries, 26, Upper Chitpur Rd., Calcutta 700001.

Carter Pooler & Co. Ltd., 1, K. N. Dutta Rd., Calcutta 700036.

Electric Construction & Equipment Co. Ltd., Parbangla, Batanagar 743313. 24-Parganas Dist.

Oriental Trading Corpn., 134, B.R.B.B. Rd., Calcutta 700001.

PULLEYS, PULLEY BLOCKS, CRANES, HOISTS, ETC.

Delhi

Amta Ind. (India), 17, DLF Ind. Area, New Delhi 110015.

Ardee Mechanical Inds. Pvt. Ltd., 28, Barakhamba Rd., New Delhi 110001.

Atlas Pulley Manufg. Co., 5392, Shradhanand Marg, Delhi 110006.

B. K. Khanna & Co. Pvt. Ltd., 14–F, Central Place, New Delhi 110001.

Benlaks (India) House, Shradhanand Marg, Delhi 110006.

Dass Hitachi Pvt. Ltd., 21–A, Janpath, New Delhi 110002.

Dehati Engg. Works, 15, Najafgarh Rd., Ind. Area, New Delhi 110015.

Goodlift (India) Inds. (Regd.), A-12, St. No. 4, Anand Parbat Ind. Area, New Rohtak Rd., New Delhi 110005.

Hindustan General Inds. Ltd., Qutab Rd., Delhi 110006.

Indudyog Co. Pvt. Ltd., 40, Ind. Estate, Okhla, New Delhi 110020.

K. G. Khosla & Co. Pvt. Ltd., 1, D. B. Gupta Rd., New Delhi 110001.

Lifting Equipment & Accessories, B–13/1, Jhilmil Indl. Area, Shahdara, Delhi 110032.

Mangla Engg. Corpn., 229, Ajmeri Gate, Delhi 110006.

Prem Nath Nanda & Sons, Hauz Qazi, Delhi 110006.

Pulling & Lifting Machines Pvt. Ltd., 12, Sriram Rd., Civil Lines, Delhi 110006.

R. D. Varma & Co. Pvt. Ltd., 28, Barakhamba Rd., New Delhi 110001.

Shakti Pulley Manufg. Co., 5391, Light Bldg., Shradhanand Marg, Delhi 110006.

Gujarat

Elecon Engg. Co. Ltd., Vallabh Vidyanagar 388120.

Pioneer Equipment Co. Pvt. Ltd., 432, Padra Rd., Vadodara 390005.

Sayaji Iron & Engg. Co. Ltd., Chhani Rd., Vadodara 390002.

Haryana

Escorts Ltd., 18/4, Mathura Rd., Faridabad 121001.

Karnataka

Armatic, 26, M. M. Ind. Estate, Jayanagar West, Bangalore 560011.

Armsel (Bangalore), 25, Kormangla Indl. Layout, Hosur Rd., Bangalore 560034.

C.M.C. Works, 19/1, Platform Rd., Bangalore 560020.

Mantons (Bangalore) Pvt. Ltd., No. 3, Corpn. Bldg., Residency Rd., Bangalore 560025.

Steel Construction Co. Pvt. Ltd., 41, Hardinge Rd., Bangalore 560001.

Kerala

Kerala Electrical and Allied Engg. Co. Ltd., Mamala, Cochin 682305.

Maharashtra

Abdulhusein Peerbhoy & Sons, 66–68, Narayan Koli Mrg., Peerbhoy Bldg., Bombay 400003.

Ashton Green & Co., 118, Sir Vithaldas Chambers, 16, Apollo St., Bombay 400023.

B. R. Hermann & Mohatta (I.) Pvt. Ltd., Mustafa Bldg. Sir P. Mehta Rd., Bombay 400001.

Bharat Textile Inds., Darukhana, Reay Rd., Bombay 400010.

BUC Mechanical Equipments Pvt. Ltd., 119 ABC, Govt. Ind. Estate, Kandivli West, Bombay 400067.

Consolidated Hoists Pvt. Ltd., Pune 411009.

Crescent Iron & Steel Corpn. Ltd., Ind. Area, Lalbaug, Bombay 400012.

Dynacraft Machine Co. Pvt. Ltd., C. D. Barfiwalla Margi Bombay 400058.

Eastern Machinery & Trdg. Co., Imperial Chambers, Wilson Rd., B. Estate, Bombay 400038.

Electro Fabricators Pvt. Ltd., A–301, Wagle Indl. Estate, Rd. No. 32, Thane 400604.

Electromag Devices, Unique Industrial Estate, Veer Savarkar Marg, Prabhadevi, Bombay 400025.

Esoofali Esmailji Karachiwalla & Co., 43–45, N. N. Kol Mrg., Mandvi, Bombay 400003.

FMC Engg. Works Pvt. Ltd., Sonal Indl. Estate, Off Saki Vihar Rd., Bombay 400072.

Garlic Engg., Garlick House, 414, S. Bapat Mrg., Bombay 400013.

Hercules Hoists Ltd., Minerva Ind. Estate, Opp. Ralliwolf, L.B. Shastri Marg, Mulund, Bombay 400080.

Hercules Mechanical Works, B-59, Wagle Ind. Estate, Thane 406004.

Hoist-O-Mech Ltd., Pokhran Rd. No. 2, Majiwada, Thane 400606.

Indmag Pvt. Ltd., 17, Off Arthur Bunder Rd., Bombay 400005.

K. T. Steel Ind. Pvt. Ltd., 21, Bharuch St., Bombay 400009.

Kalton's Engg. Works Pvt. Ltd., Jari Mari, Kurla-Andheri Rd., Bombay 400072.

Khandelwal Udyog Ltd., Kurla-Kirol Rd., Bombay 400086.

Larsen & Toubro Ltd., L & T House, Ballard Estate, Bombay 400038.

Magco Controls, Post Box No. 6666, Bombay 400050.

Materials Handling Engg. Co., 1, Sidhpura Ind. Estate, Masrani Le., Bombay 400070.

McKenzies Ltd., Donde Marg, Bombay 400015.

Mech-Electricals, 16, Kapadia Ind. Estate No. 3, 122-124, M. Vasanji Rd., Bombay 400093.

Millar's Machinery Co. Pvt. Ltd., Pokhran Rd. No. 2, Thane 400601.

New Standard Engg. Co. Ltd., N.S.E. Estate, Goregaon (East), Bombay 400063.

Nigo's Corpn., Patel Comp., 48B, Lamington Rd., Near Nair Hospital, Bombay 400008.

R. N. Suresh Tools Corpn., 53, Commercial Chambers, Meheralli Rd., Bombay 400003.

Radiant Electric & Machinery Co., Parekh Market, Kennedy Bridge, Bombay 400004.

Richardson & Cruddas Ltd., Byculla Iron Works, Bombay 400008.

Roberts, McLean & Co. Ltd., Ilaco House, Sir P. Mehta Rd., Bombay 400001.

Shah Patel & Co., 111, Nagdevi St., Bombay 400003.

Sharps Indl. Corpn., Anupam Indl. Estate, No. 2, LBS Mrg., Mulund, Bombay 400080.

Shotblasting & Metal Spraying Pvt. Ltd., 509, Arun Chambers, Tardeo Rd., Bombay 400034.

Standard Material Agencies, 45/46, Podar Chambers, Parsee Bazar St., Bombay 400001.

Steel-Smith, 8, Sethi Ind. Estate, Suren Rd., Andheri (East), Bombay 400093.

Tak Machinery Ltd., Janmabhoomi Bhavan, Ghoga St., Bombay 400001.

Tas Engg. Co. Pvt. Ltd., 333, A. Rehman St., Bombay 400003.

Todi Inds. Pvt. Ltd., Todi Estate, Lower Parel, Bombay 400013.

W. H. Brady & Co. Ltd., 12/14, Veer Nariman Rd., Bombay 400001.

Western Mechanical Ind. Pvt. Ltd., Industry Manor, Opp. Bengal Chemicals, Bombay 400025.

Westerwork Engrs. Pvt. Ltd., 15, Bhandup Village Rd., Bombay 400078.

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Punjab

Zordor Inds., Hoshiarpur Rd., Jullundur 144001.

Tamil Nadu

Adyar Industries, Kalashetra Rd., Off Lattice Bridge Rd., Madras 600041.

Chitram & Co. Pvt. Ltd., Main Rd., Royapuram, Madras 600013.

Marshall Sons & Co. (Mfg.) Ltd., 33 34, Ambattur Ind. Estate, Madras 600058.

South Coast (Hardware) Pvt. Ltd., 2/153, Broadway, Madras 600001.

Southern Structurals Ltd., 29-A, Chamier's Rd., Madras 600028

VNR Mfg. Industries, 92–A, Indl. Estate, Madras 600058.

Uttar Pradesh

Pulling and Lifting Machines Pvt. Ltd., B-10, Ind. Area, No. 3, Meerut Rd., Ghaziabad 201001.

Saran Engg. Co. Ltd., Sutherland House, Kanpur 208001

West Bengal

A. Stock & Co. Ltd., 8, Goragacha Rd., Calcutta 700007.

Arthur Bagree & Co. (I), 40, Strand Rd., Calcutta 700001.

Asian Marketing Co. Ltd., 38 N. Subhas Rd., Calcutta 700001.

Braithwaite & Co. (I) Ltd., Angus 712221. Hooghly Distt.

Brittania Engg. Co. Ltd., 3, N. Subhas Rd., Calcutta 700001.

Burn & Co. Ltd., Howrah 711101.

Coles Cranes of India Ltd., 517, Barrackpore Rd., Kamarhatti 700058. 24 Parganas Dist.

Construction Machinery Corpn., 32, G. Chandra Ave., Calcutta 700001.

Escal India Pvt. Ltd., P-34, C.I.T. Rd., Calcutta 700014.

Garden Reach Shipbuilders & Engrs. Ltd., 43/46, Garden Reach Rd., Calcutta 700024.

Hindustan Motors Ltd., Uttarpara 712258. Hooghly Dist.

Indian Crane Co. Ltd., 517, B.T. Rd., Calcutta 700058.

J. K. Steel & Ind. Ltd., 7, Council House St., Calcutta 700001.

Jessop & Co. Ltd., 63, N. Subhas Rd., Calcutta 700001.

Krane & Winches, 22, Canning St., Calcutta 700001.

Kumardhubi Engg. Works, Chartered Bank Bldg., Calcutta 700001.

Lynx Machinery Ltd., 104, Ultadanga Main Rd., Calcutta 700001.

Modern India Construction Co. Ltd., 8, India Exchange Place, Calcutta 700001.

New Marine Mart, 4, Raja Woodmunt St., Calcutta 700001.

Roberts Mclean & Co. Ltd., 27–B, Camac St., Calcutta 700016.

Usha Telehoist Ltd., 14, Princep St., Calcutta 700013.

Vinar Ltd., 2–A, Shakespeare Sarani, Calcutta 700071.

TRAILERS & TROLLIES

Andhra Pradesh

Hyderabad Allwyn Metal Works Ltd., Sanatnagar, Hyderabad 500018.

Delhi

Delhi Engg. Works Pvt. Ltd., G.T. Rd., Azadpur, Delhi 110033.

Ghaziabad Engg. Co. Pvt. Ltd., 42, Janpath, New Delhi 110002.

Indudyog Co. Pvt. Ltd., 40, Okhla Ind. Estate, New Delhi 110020.

New India Motors Pvt. Ltd., Scindia House, New Delhi 110001.

Gujarat

Testeels Ltd., Ashram Rd., Ahmedabad 380014.

Karnataka

CMC Works, 19/1, Platform Rd., Bangalore 560020.

Govt. Central Indl. Workshop, Mysore Rd., Bangalore 560026.

Maharashtra

Esoofali Esmailji Karachiwala & Co., 43/45, Bhandari St., Mandvi, Bombay 400003.

K. T. Steel Inds. Pvt. Ltd., Broach St., Dana Bunder, Bombay 400009.

Kanara Engg. Co. Pvt. Ltd., Mascarenhas Rd., Bombay 400010.

Mahindra & Mahindra Ltd., Gateway Bldg., Apollo Bunder, Bombay 400039.

Marian Engg. Co., 710, Horniman Circle, Bombay 400001.

Raja Steel Inds., 8, Kaka Halwai Estate, Pune 411009.

Ruby Industries, 75, Dr. A. Besant Rd., Bombay 400018.

Punjab

Aminchand Bholanath, Tanda Rd., Jullundur 144001.

Tamil Nadu

Addison & Co. Ltd., 158, Mount Rd., Madras 600002.

Simpson & Co. Ltd., 202, Mount Rd., Madras 600002.

Sreevatsa Engg. & Trading Co., 92–A, Indl. Estate, Madras 600058.

Trailers India, 1/30, Pantheon Rd., Egmore, Madras 600008.

VNR Mfg. Industries, 14/A, Mada Church St., Madras 600028.

Uttar Pradesh

Light Carts Pvt. Ltd., Cariappa St., Meerut 250001.

West Bengal

Alexander Pvt. Ltd., 26, Strand Rd., Calcutta 700001.

Amiya Corpn., 19, Abdul Hamid St., Calcutta 700001.

Associated Aesby Ind. Pvt. Ltd., 22, Strand Rd., Calcutta 700001.

Balmer Lawrie & Co. Pvt. Ltd., 21, N. Subhas Rd., Calcutta 700001.

Bengal Hardware Co., 70, N. Subhas Rd., Calcutta 700001.

C. Comens & Sons Ltd., 103/3, Diamond Harbour Rd., Calcutta 700038.

Chopra Motors, 139, Regent Park, Calcutta 700040.

Mechanical Engg. Co. Pvt. Ltd., 50/1, Tangra Rd., Calcutta 700015.

MEDICAL EQUIPMENT

BABY PRODUCTS

Delhi

Helix Latex Ind., B-28, G. T. Karnal Rd., Ind. Area, Delhi 110033.

Maharashtra

Bombay Latex & Dispersions Pvt. Ltd., 83-C, A. Besant Rd., Worli, Bombay 400018.

Johnson & Johnson Ltd., Spencer's Bldg., 30, Forjett St., Bombay 400036.

HOSPITAL EQUIPMENT

Andhra Pradesh

Deccan Porcelain & Enamel Works Ltd., 2707, Bakaram, Mushirabad, Hyderabad 500048.

Delhi

Allied Surgical & Dressings, Bhagirath Palace, Chandni Chowk, Delhi 110006.

Apothecaries' Sundries Manufg. Co., P.O. Box 1, New Delhi 110001.

Bensons Surgico, 42, Indl. Area, Najafgarh Rd., New Delhi 110015.

Eastern Trdg. Corpn., 849, Lajpatrai Market, Chandni Chowk, Delhi 110006.

Enkay India Rubber Co., 156-D, Kamla Nagar, Delhi 110007.

Helix Latex Ind., C-11-6, Model Town, Delhi 110009.

National Instruments Ltd., Ansal Bhawan, K. Gandhi Mrg., New Delhi 110001.

Ocean Surgical Co., 51/2, D. B. Gupta Rd., Karol Bagh, New Delhi 110005.

Phillips India Ltd., 68, Najafgarh Rd., New Delhi 110015.

Rita Rubber and Surgical Works, 1579, Bhagirath Palace, Delhi 110006.

Swastik Thermometer Co., E–51, Krishan Nagar, New Delhi 110051.

Gujarat

Jintan Clinical Thermometer Co. (I) Pvt. Ltd., Surendranagar 363001.

Shah Medical and Surgical Co. Ltd., Ajwa Rd., Vadodara 390001.

Surgical Equipment Mfg. Co., 1, B. Kalpana Bhoomi Estate, Dhudeshwar Rd., Ahmedabad 380001.

Karnataka

British Physical Laboratories India Pvt. Ltd., M. G. Rd., Bangalore 560001.

Chamundi Metal Ind., 80, Rajaji Nagar Ind. Suburb, Bangalore 560022.

Maharashtra

Bombay Oxygen Corpn. Ltd., 5, Convent St., Bombay 400039.

Dial Rubber Works, Sonawala Cross Rd., Goregaon East, Bombay 400063.

Elphinstone Metal Rolling Mills P. Ltd., 154, Bapu Khote St., Bombay 400003.

Elpro Intnl. Ltd., Chinchwad Gaon, Pune 411033.

Harshadray Pvt. Ltd., Jiji House, Raveline St., Bombay 400001.

Hindustan Trading Co., 91, Princess St., Bombay 400002.

Indian Dental Traders, 3, Warden Court, Gowalia Tank, Bombay 400025.

Indian Oxygen Ltd., L. B. Shastri Marg, Ghatkopar West, Bombay 400086.

Iscomed Ind. Pvt. Ltd., Shastri Marg., Bombay 400080.

Janak Mfg. Works, Antop Hill, Wadala East, Bombay 400037.

Japsin Instrumentation, 40, Picket Rd., Kalbadevi, Bombay 400002.

Johnson & Johnson Ltd., Spencer's Bldg., 30, Forjett St., Bombay 400036.

Kalelkar Surgical Ind., 305, S. Gandhi Marg, Bombay 400002.

Kanti Impex Trdg. Co., 125, N. Master Rd., Bombay 400023.

Krishna Instruments & Appliances Co., 230, Arun Chambers, Tardeo, Bombay 400034.

M. Shah & Co., Kanji Mansion, 311, S. Patel Rd., Bombay 400004.

Macphil & Co. Pvt. Ltd., B-3, Wagle Estate, Panchpakhadi, Thane 400604.

Mazda Mfg. Co., 6, Datta Mandir Rd., Bhandup, Bombay 400078.

Nat Steel Equipment Pvt. Ltd., 9, Ambekar Marg, Bombay 400014.

National Instruments Ltd., K. Parikh House, 47, P. D'Mello Rd., Bombay 400009.

Oriental Metal Pressing Works Pvt. Ltd., 131, Worli, Bombay 400018.

Scientific Sales Corpn., 70/72, S. Devji St., Bombay 400003.

Star Scientific, Raut Ind. Estate, 424-A, S. Bapat Mrg., Bombay 400016.

Swivel Castors Engg. Co., 2, Sidhpura Ind. Estate, Masrani Lane, Kurla, Bombay 400070.

Taap Maan Kendra, 281, P. D'Mello Rd., Bombay 400001.

Vijay Lakshmi Electric Co., Sitaram Bldg., 37, Dr. D. N. Rd., Bombay 400001.

Orissa

National Instruments Ltd., Coll. Square, Cuttack 753003.

Tamil Nadu

National Instruments Ltd., 150A/3, Anna Salai, Madras 600002.

Omega Surgical Ind., 19, Riverside Rd. II, Agraharam, Salem 636001.

Tablets Ltd., 107, N. S. C. Bose Rd., Madras 600001.

Uttar Pradesh

Lucknow Surgical Co., 30, M. G. Rd., Lucknow 226001.

West Bengal

Asiatic Oxygen Ltd., 8, B.B.D. Bagh East, Calcutta 700001.

National Instruments Ltd., 1/1, Raja S. C. Mullick Rd., Jadavpur, Calcutta 700032.

HOSPITAL FURNITURE

Delhi

Capital Surgical Co. Pvt. Ltd., 7-B, N. Subash Marg, Daryaganj, New Delhi 110002.

Maharashtra

Godrej & Boyce Manufg. Co. Pvt. Ltd., Lalbaug, Parel, Bombay 400012.

Hitra Equipments, Khambata Lane, Opp. Victoria Gardens, Bombay 400027.

Janak Mfg. Works, Antop Hill, Wadala East, Bombay 400037.

Tamil Nadu

Pikays Medico Surgicals, 199, Mount Rd., Madras 600002.

Medical Equipment Co., 48/1, R.H. Rd., Madras 600004.

West Bengal

Ashok Metal Inds. Ltd., 157, N. S. Rd., Calcutta 700001.

Bharat Tin & Enamel Co. Pvt. Ltd., 2-A, Shakespeare Sarani, Calcutta 700016.

H. Mukerji & Bannerjee Surgical Pvt. Ltd., 39/1, College St., Calcutta 700012.

ORTHOPAEDIC EQUIPMENT

Delhi

Delhi Surgical & Dressings, Bhagirath Palace, Delhi 110006.

India Medico Instruments, 14, Angoori Bagh Mkt., Delhi 110006.

International Surgical Works Pvt. Ltd., 8-B, UO/3, Kartar Niwas, Jawahar Nagar, Delhi 110007.

West Bengal

H. Mukerji & Bannerjee Surgical Pvt. Ltd., 39/1, College St., Calcutta 700012.

PHYSIOTHERAPY EQUIPMENT

Maharashtra

Electro Medical Apparatus Co., 3, Tandel St., South Dongri, Bombay 400009.

Hitra Equipments, Khambata Lane, Opp. Victoria Garden P.O., Bombay 400027.

Karnataka

Kamal Industries, 2-F, M. Gandhi Rd., Bangalore 560001.

SURGICAL DRESSINGS

Delhi

Allied Surgical Dressings, Bhagirath Palace, Chandni Chowk, Delhi 110006.

Eagle Surgical Dressing Manufg. Co., 202, Lajpatrai Market, Delhi 110006.

Goa

Leukoplast (India) Pvt. Ltd., Rua de Curem, Panaji 403001.

Maharashtra

Brisk Surgical Cotton, 138, Gandhi Chowk, Thane 400601.

Diamond Surgical Dressing Works, 381, S. Guruji Marg, Bombay 400011.

Johnson & Johnson Ltd., Spencers Bldg., 30, Forjett St., Bombay 400036.

West Bengal

Jayer & Co., 12-B, N. Subhas Rd., Calcutta 700001.

SURGICAL INSTRUMENTS

Andhra Pradesh

Jyothi Industries, C-31 Ind. Estate, Sanatnagar, Hyderabad 500018.

Delhi

Allied Surgical & Dressings, Bhagirath Palace, Chandni Chowk, Delhi 110006.

Capital Surgical Co. Pvt. Ltd., 7-B, N. Subash Marg, Daryaganj, New Delhi 100002.

Evershine Surgical Co., Mahalaxmi Market, Bhagirath Palace, Delhi 110006.

Gujarat

Shah Medical & Surgical Co. Ltd., Ajwa Rd., Vadodara 390001

Karnataka

British Physical Labs. India Pvt. Ltd., 28, K. Hanumanthiah Rd., Bangalore 560027.

Paxal Corpn., 13, Sri Krishnarajendran Rd., Bangalore 560002.

South India Surgical Co., 71/1 & 2 A, Srinivasachar St., Bangalore 560002.

Maharashtra

Alfa Surgical & Engg. Co., 97, A.B. Udyog Bhavan, Old Prabhadevi Rd., Bombay 400025.

All India Surgical Mfg. Co., 146, Princess St., Bombay 400002.

Andhra Scientific Co. Ltd., Janmabhoomi Chambers, Ballard Estate, Bombay 400038.

Asian Surgical Co., Alkarim Manzil, 15, Palton Rd., Bombay 400001.

Bhatia Surgical Works, 78, Govt. Indl. Estate, Bombay 400067.

Bombay Surgical Co., Opp. H. N. Hospital, Sandhurst Rd., Bombay 400004.

Deo Surgical & Scientific Co., 95, Amersey Rd., Bombay 400064.

Fairdeal Surgical Corpn., 106, Bank of Baroda Bldg., Palton Rd., Bombay 400001.

Ideal Surgical Corpn., Mansoor Bldg., Princess St., Bombay 400002.

Imperial Surgical Co. Pvt. Ltd., India House, Opp. G.P.O., Bombay 400001.

Kalelkar Surgical Ind., 305, Princess St., Bombay 400002.

National Surgical Instrument Co., 301, Haines Rd., Worli, Bombay 400018.

Standard Surgical & Dressing Works, 28, B. Genu Rd., Bombay 400002.

Sudhir Surgical Co., 46, Old Hanuman Lane, Bombay 400002.

Vijaya Scientific & Surgical Co., 16, Shreyas, 180, Backbay Reclamation, Bombay 400020.

Warden Surgical Co. Pvt. Ltd., Mapla Mahal, Thakurdwar Rd., Bombay 400002.

Western India Surgical Co., 98, S. Gandhi Marg, Bombay 400002.

Zenith Surgical Co., 206, 3C-Mangaldas Bldg., Mangaldas Rd., Bombay 400002.

Tamil Nadu

East India Surgical Co., 196, Mount Rd., Madras 600002

Madras Surgical Equipments Co., 6, Ritchie St., Madras 600002.

Medical Equipments Co., 48/1, R.H. Rd., Madras 600004.

Pikays Medico Surgicals, 199, Mount Rd., Madras 600002.

South India Surgical Co., 196, Mount Rd., Madras 600002.

Uttar Pradesh

Kehr Surgical & Allied Products Pvt. Ltd., C-34, Panki Indl. Estate, Kanpur 208022.

West Bengal

Calcutta Metallic Co., 11, H. Mukerjee Rd., Calcutta 700025.

H. Mukerji & Bannerjee Surgical Pvt. Ltd., 39/1, College St., Calcutta 700012.

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Maharashtra

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Espi Trdg. Co., Neelkanth, 98, N. Subash Rd., Bombay 400002.

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Indian Metal Powder Ind., 404-A, Kalbadevi Rd., R. N. 23, 3rd Flr., Bombay 400002.

Industrial Sales Agency, 55, Canning St., Calcutta 700001.

Khosla Metal Powders Pvt. Ltd., 43, Aundh Rd., Khadki, Pune 411003.

Kumar Bronze Powders Ltd., 2/8, Ansari Rd., Daryaganj, New Delhi 110002.

Mahindra Sintered Products Ltd., Gateway Bldg., Apollo Bunder, Bombay 400039.

Metal Powder Co. Ltd., Maravarankulam, Pudunagar 626709 (Madurai Dist.), Tamil Nadu.

METALLISED MATERIALS

Chemicoat Ltd., Kalali Rd., P. O. Atladra, Vadodara 390003.

METALLO-PLASTIC YARN

Rexor India Ltd., 33, Chittaranjan Ave., Calcutta 700012.

METALS—NON-FERROUS

Bihar

Hindustan Copper Ltd., Ghatsila 832303.

Delhi

Alcobex Metals Pvt. Ltd., 4909, H. Qazi, Delhi 110006.

Indian Aluminium Cables Ltd., Kanchenjunga, 18, Barakhamba Rd., New Delhi 110001.

Jindal Aluminium Ltd., 1/6B, Asaf Ali Rd., New Delhi 110002.

Skytone Electricals (India), Vandhana, 11, Tolstoy Marg, New Delhi 110001.

Gujarat

Baroda Rolling Mills Ltd., Channi Rd., Vadodara 390001.

Bombay Conductors & Electricals Pvt. Ltd-, Maninagar. Ahmedabad 380008.

Mahendra Electricals Ltd., Kamla Mission Rd., Nadiad 387001.

Haryana

Indian Metal Ind., Jagadhri 135003.

Vishwakarma Metal Works, Mangatpura, Jagadhri 135003.

Karnataka

Mysore Wires & Metal Ind., 13-IV, Cross, Magadi Rd., Bangalore 560023.

Kerala

Aluminium Ind. Ltd., Kundara 691501.

Cominco Binani Zinc Ltd., Binanipuram, P.O. Udyogamandal 683501.

Maharashtra

A. B. C. Metal Ind., 90, Kika St., Bombay 400004.

Agarwal Metal Co., 107, Thakurdwar Rd., Bombay 400002.

Ashok Metal Ind., 6, Sewree Cross Rd., Bombay 400015.

Asian Corpn., 91, Mohamedali Rd., Bombay 400003.

Asian Metal Industries, 91, Kika Street, Gulalwadi, Bombay 400004.

B. C. Metal Manufg. Co., 5–B, Ramesh Aptts., Narshing Lane, P.B. No. 7630, Malad (West), Bombay 400064.

Bhandary Metallurgical Corpn. Pvt. Ltd., Sion–Chembur Rd., Bombay 400070.

Bhansali Steel Corpn., 35, Bapu Khote Crosslane, Bombay 400003.

Bharat Engg. & Metal Works, 29-30, Suryodaya Mill Compound, Tardeo, Bombay 400034.

Bharat Metal Corpn., 16/18, Hira Bhavan, Thakurdwar Rd., Bombay 400002.

Bombay Metal & Alloys Manufg. Co. Pvt. Ltd., Off Magazine St., Near Reay Road Station, Bombay 400010.

Bralco Metal Ind. Pvt. Ltd., Gupta Mills Estate, Darukhana, Reay Rd., Bombay 400010.

Cominco Binani Zinc Ltd., Udyog Bhavan, W. Hirachand Mrg., Bombay 400038.

Deccan Metal Works, 553, Rasta Peth, Pune 411011.

Devidayal Rolling & Refineries Pvt. Ltd., Gupta Mills Estate, Darukhana, Reay Rd., Bombay 400010.

Emmes Metals Pvt. Ltd., 147, Govt. Indl. Estate, Kandivli (West), Bombay 400067.

Hindustan Metal and Engg. Co., 8/10, 2nd Carpenter St., Bombay 400004.

Hindustan Transmission Products, Kurla Vihar Rd., Chandivali, Bombay 400070.

Hooseini Metal Rolling Mill Pvt. Ltd., Atlas Mill Comp., Reay Rd., Bombay 400010.

Indian Lightgauge Metal Products Pvt. Ltd., 8, Bhagwan Mansion, Cinema Rd., Bombay 400020.

Indian Smelting & Refining Co. Ltd., L. B. S. Marg, Bhandup, Bombay 400078.

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4. United Engineering Industries.
   Manufacturers of : Bicycle Freewheels.
5. Tapes & Polymers.
   Manufacturers of : Tapes.

Indian Standard Metal Co. Ltd., Chinchpokli Cross Lane, Bombay 400027.

Inter Sales Corpn., 7, Vardhman Bank Bldg., 3rd Panjrapole Lane, Bombay 400004.

J. B. Metal Ind., Saki Vihar Rd., Bombay 400072.

Jayant Metal Manufg. Co., 16, Sayani Rd., Bombay 400028.

Kamani Metals & Alloys Ltd., Kamani Chambers, Nicol Rd., Ballard Estate, Bombay 400038.

Kamani Tubes Pvt. Ltd., L. B. Shastri Marg, Kurla, Bombay 400070.

M. Amarchand Metal Industries, 139-43, Thakurdwar Rd., Bombay 400002.

Mahendra Metals, 29, Ardeshir Dady St., Bombay 400004.

Mardia Industries, 83, Kika St., Gulalwadi, Bombay 400004.

Metal Rolling Works Pvt. Ltd., 104, Sion Matunga Estate, Sion, Bombay 400022.

Metallica Works Pvt. Ltd., 138-141, Govt. Ind. Estate, Kandivli (West), Bombay 400067.

Mohanlal Pratapchand & Co., 160, Kika St., Bombay 400004.

Montana Pvt. Ltd., Rahimtolla House, Homji St., Bombay 400001.

Moolchand Manmal & Co., 162, Kika St., Bombay 400004.

N. M. Metal Industries, Panandi Walbhat, Madhavji Rd., Goregaon, Bombay 400063.

National Metal Works, 156/158, C. P. Tank Rd., Ardeshir Dady X Lane, Bombay 400004.

Non Ferrous Metal Corpn., Corner of 4th Khetwadi Lane, 274, Sardar V. P. Rd., Bombay 400004.

Oriental Metal Industries, Mehta Compound, Off Foras Rd., Bombay 400008.

Pankaj Metal Corpn., 55-C, 1st Khattarali Lane, Thakurdwar Rd., Bombay 400002.

Popular Metal Works & Rolling Mills, Behind Fish Mkt., Sion, Bombay 400022.

Prakash Metal Corpn., 132, Kika St., Bombay 400004.

Premier Metals & Engg. Co., 7/9, Ardeshir Dady X Lane, C. P. Tank, Bombay 400004.

Ram Kishan Metal Works, Ashok Chambers, Broach St., Bombay 400078.

Rashtriya Metal Ind. Ltd., Andheri-Kurla Rd., J.B. Nagar, Bombay 400059.

Rasiklal Kantilal & Co., 145, Kika St., Bombay 400004.

Roshan Industries Corpn., Kikabhai Mansion, 7, Kika St., Bombay 400004.

Shanti Metal Works, Shyam, C-6, Opp. Kaveri Bldg., Dutt Mandir Rd., Kandivli (W.), Bombay 400067.

Shuja Metal Centre, 55-57, Nakhoda St., Bombay 400003.

Sonal Metal Syndicate, 53, Kika St., Bombay 400004.

Star Metal Refinery Pvt. Ltd., 361, Dr. D. Naoroji Rd., Bombay 400001.

Sudarshan Chokhani & Co., 138, Kalbadevi Rd., Bombay 400002.

Suraj Metals, 46/48, Islampura St., Bombay 400004.

Syndicate Metal, 35-57, Bapu Khote Cross Lane, Bombay 400003.

Universal Metal Centre, Tayeb Bldg., Dhobi Galli, Bombay 400003.

Universal Metal Corpn., Shreenathji Bldg., 3rd Bhoiwada, Bombay 400002.

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Kandivli (West), Bombay 400 067.

Factory : 12, ABCD, Govt. Indl. Estate, Opp. Kishco Mills, Kandivli (West),
Bombay 400 067.

Vinod Metals & Engg. Co., 126/10, Jawahar Nagar, Goregaon (West), Bombay 400062.

Western Insulated Cables Ltd., P.B. 22, Pune 411001.

Rajasthan

Jaipur Metals & Electricals Ltd., Near Rly. Station, Jaipur 302002.

Jaipur Metal Inds. Ltd., Near Railway Station, Jaipur 302001.

Multimetals Ltd., Heavy Ind. Areas, Kota 324003.

Pyarelal Kiranwala, Laktan Kotri, Ajmer 305001.

Shri Mahesh Metal Works, Roopangarh Rd., Madanganj Kishangarh 305802.

Tamil Nadu

Indian Metal & Metallurgical Corpn., 498, Mint St., Madra 600003.

Madras Aluminium Co. Ltd., Race Course, Coimbatore 641018.

Madras Electrical Conductors Pvt. Ltd., 37, Arcot Rd., Madras 600026.

Mahalaxmi Metal Co., 27-A, Muker Nallamuthu St.' Madras 600001.

Manik Metal Distributors, 134, N.S.C. Bose Rd., Madras 600001.

Metal Distributors Ltd., 68/2, Mowbrays Rd., Madras 600008.

Mysore Premier Metal Factory, 127, Mint St., Madras 600001.

Sargam Metals, 122, Nandambakkam, Madras 600016.

Uttar Pradesh

Century Metals Ltd., Delhi Hapur Rd., Pilkua 245304, Meerut Dist.

Hindustan Aluminium Corpn. Ltd., Renukoot 231217 Mirzapur Dist.

Hindustan Metal Works, Hathras 204101.

Saru Smelting Pvt. Ltd., Sardhana Rd., Near Cantt. Rly. Stn., Meerut 250001.

West Bengal

A. T. Gooyee & Co., 109, N. Subhas Rd., Calcutta 700001.

Aluminium Corpn. of India Ltd., 7, Council House St., Calcutta 700001.

Aluminium Manufg. Co. Ltd., 2, Jessore Rd., Dum Dum, Calcutta 700028.

Baidyanath Engg. Co. Pvt. Ltd., 37, S. N. Roy Rd., Calcutta 700038.

Bengal Ingot Co. Ltd., 5, Hide Rd., Calcutta 700043.

Binani Commercial Corpn., 115, N. Subhas Rd., Calcutta 700001.

Binani Metal Works Ltd., 38, Strand Rd., Calcutta 700001.

Castall Corpn. Pvt. Ltd., Narainpur 731239. 24 Parganas.

Electrical Ind. Corpn., 99, M. Gupta Rd., Barisha, Calcutta 700008.

Everlite Insulating Ind. Pvt. Ltd., 137, B. Roy Rd. West, Calcutta 700008.

Eyre Smelting Pvt. Ltd., 182/115, Diamond Harbour Rd., Calcutta 700008.

Ganga Metal Refining Co. Pvt. Ltd., 43, Strand Rd., Calcutta 700007.

Hindustan Wire Products Ltd., 14, N. Subhas Rd., Calcutta 700001.

India Foils Ltd., 4, Mangoe Lane, Calcutta 700001.

Indian Aluminium Co. Ltd., 1, Middleton St., Calcutta 700016.

Indian Metals & Alloys Mfg. Co., 40, N. Subhas Rd., Calcutta 700001.
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Metals & Ores Co., Transport Depot Rd., Calcutta 700027.
National Pipes & Tubes Co. Ltd., Nicco House, 1 & 2, Hare St., Calcutta 700001.
Sanjay Commercial Co., 40, Strand Rd., Calcutta 700001.
Saru Smelting Pvt. Ltd., P-35, India Exchange Place, Calcutta 700001.
Standard Metal Co., 101, N. Subhas Rd., Calcutta 700001.
Waldies Ltd., A-1, Gillander House, N. Subhas Rd., Calcutta 700001.

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Globe Indl. Corpn., 109, N. Subhas Rd., Calcutta 700001.
Karfa & Co., 115, N. Subhas Rd., Calcutta 700001.
Harischandra & Co., 233, A. Rehman St., Bombay 400003.
Metal Perforators, 43, Abdul Rehman St., Bombay 400003.
Metal Perforators Private Ltd., Anees Chambers, Carnac Rd., Bombay 400001.
Metal Perforation Pvt. Ltd., G. P. Ind. Estate, P. O. Chhani 391740, Vadodara.
Metalcom Inds., 68, Mahant Rd., V. Parle East, Bombay 400057.
N. J. Metal Screens Mfrs. Pvt. Ltd., 134, N. Master Rd., Bombay 400001.
Siri Ram & Co., 97, Narayan Dhuru St., Bombay 400003.
Zenith Iron Works, 46, Abdul Rehman St., Bombay 400003.

METERS & MEASURING INSTRUMENTS—ELECTRICAL

Andhra Pradesh

Andhra Pradesh Electrical Equipment Corpn., Basant Rd., Sanatnagar, Hyderabad 500018.
Instruments Technique Laboratory, B-2, Co-op. Ind. Estate, Balanagar, Hyderabad 500037.

Delhi

Das Hitachi Pvt. Ltd., 21-A, Janpath (Windsor Place), New Delhi 110002.
Electrical Instrument Co., 20, Friends Colony, Grand Trunk Rd., Shahdara, Delhi 110032.
Meters and Instruments Pvt. Ltd., 4/90, Connaught Circus, New Delhi 110001.
Precision Instrument Manufg. Co., 1254, Kashmiri Gate, Delhi 110006.

Gujarat

Baroda Electric Meters Ltd., Vallabh Vidyanagar 388120.

Karnataka

British Physical Lab. India Pvt. Ltd., 28, K. Hanumanthiah Rd., Bangalore 560027.
International Instruments Pvt. Ltd., 140, Hosur Rd., Bangalore 560034.

Maharashtra

Apex Enterprises, 79, Govt. Ind. Estate, Kandivli West, Bombay 400067.
Bharat Electronics & Electricals, 407, Commerce House, N. Master Rd., Bombay 400023.
Electro-Equipments Corpn. Ltd., 303-304, L. B. Shastri Marg, Mulund, Bombay 400080.
Electroscope Systems, 301, Navketan, Central Ave., Chembur, Bombay 400071.
Emjay & Co., 59, V. B. Gandhi Rd., Bombay 400001.
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Frank Sadhachand & Co., Sadguru, Nehru Rd., Santa Cruz (E), Bombay 400055.
Geekays India, Jalaram Nagar, Bombay 400077.
Greens (India) Corpn., 89, Bank of Baroda Bldg., Palton Rd., Bombay 400001.
Gyro Laboratories Pvt. Ltd., 8, Gazdar St., Thakurdwar, Bombay 400002.
Hindustan Instruments, 7/9, Bell Lane, Bombay 400001.
Industrial Meters Pvt. Ltd., 85, Govt. Indl. Estate, Kandivli West, Bombay 400067.
Kaycee Ind. Ltd., 32, Nicol Rd., B. Estate, Bombay 400038.
Mahindra & Mahindra Ltd., Worli Rd. No. 13, Bombay 400018.
Meco Instruments Pvt. Ltd., 310, Bharat Ind. Estate, Tokersi Jivraj Rd., Sewri, Bombay 400015.
Mersuj Dialometrics, B-53, Coziham, Pali Hill, Bandra, Bombay 400050.
Modern Equipment Development Co. Pvt. Ltd., Ghosalkar Compd., Shivaji Udyog Nagar, Dombivli East 421201, Thane Dist.
Motwane Manufg. Co. Pvt. Ltd., 127, M. Gandhi Rd., Bombay 400023.
Mysore Electrical Measuring Instruments, Unit No. 202-C, Ind. Estate, Ghatkopar, Bombay 400086.
National Supply & Dist. Agency, 11, Picket Cross Rd., Bombay 400002.
Nippen Electrical Inst. Co., 12-A, Marol Maroshi Rd., Andheri (E), Bombay 400059.
Pla Electro Appliances, Thakor Estate, Kurla Kirol Rd., Vidyavihar West, Bombay 400086.
S. S. Inds., D-22, Udyog Sadan, M.I.D.C., Chakala, Bombay 400093.
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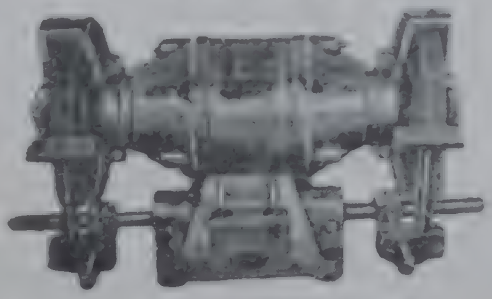

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Bombay Samachar, Red House, Sayed Abdulla Brelvi Rd., Bombay 400001.

Economic Times, The Times of India Press, Dr. D. Naoroji Rd., Bombay 400001.

Financial Express, Express Towers, Bombay 400021.

Free Press Journal, 21, Dalal St., Bombay 400023.

Indian Express, Express Towers, Bombay 400021.

Janmabhoomi, Janmabhoomi Bhavan, Ghoga St., Bombay 400001.

Janshakti, 21, Dalal St., Bombay 400023.

Lokasatta, Express Towers, Bombay 400021.

Maharashtra Times, The Times of India Press, Dr. D. Naoroji Rd., Bombay 400001.

Maratha, Maharashtra Papers Pvt. Ltd., Shiv Shakti, A. Besant Rd., Worli, Bombay 400018.

✓ Navbharat Times, The Times of India Press, Dr. D. Naoroji Rd., Bombay 400001.

Nav Shakti, 21, Dalal St., Bombay 400023.

Navakal, 13, Shenaviwadi, Khadilkar Rd., Bombay 400004.

Sakal, Sakal Press, 93A, Old Prabhadevi Rd., Bombay 400025.

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Azad Hind, 22A, Sagar Dutta Lane, Calcutta 700012.

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Hindusthan Standard, 6, Prafulla Sarkar St., Calcutta 700001.

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Hindustan Times, Connaught Circus, New Delhi 110001.

Indian Express, Express Bldg., Bahadur Shah Zafar Marg, New Delhi 110002.

National Herald, 5A, Bahadur Shah Zafar Marg, New Delhi 110002.

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Patriot, Link House, Bahadur Shah Zafar Marg, New Delhi [illegible]

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Statesman, Connaught Circus, New Delhi 110001.

Times of India, 7, Bahadur Shah Zafar Marg, New Delhi 110002.

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Indian Express, Express Estate, Mount Rd., Madras 600002.

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Oxford Ind. India, 84–A, Kamla Nagar, Delhi 110007.

Ram Nath & Sons, 2426, Chawri Bazar, Delhi 110006.

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Puthawala Corpn., 2347, Moti Makeriwad, Relief Rd., Ahmedabad 380001.

Ryman Printers & Stationers, Capital Commercial Centre, Basement B–11/12, Ashram Rd., Ahmedabad 380009.

Sureshchandra & Bros., Opp. Dena Bank, Gandhi Rd., Ahmedabad 380001.

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Ashok File Ind., 185, Bazargate St., Bombay 400001.

Bombay Book Manufg. Co., 244, Raviwar Peth, Pune 411002.

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Rockvel Corpn., Anand Bhuvan, Sir P. M. Rd., V. Parle (E), Bombay 400057.

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Punjab

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Swastik Engg. Co., Mukand Nagar, Ghaziabad 201001, U.P.

Tekma Machinery Manufg. Co. Pvt. Ltd., Saki Vihar Rd., Bombay 400072.

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Vulcan Laval Ltd., Mustafa Bldg., Sir P. Mehta Rd., Bombay 400001.

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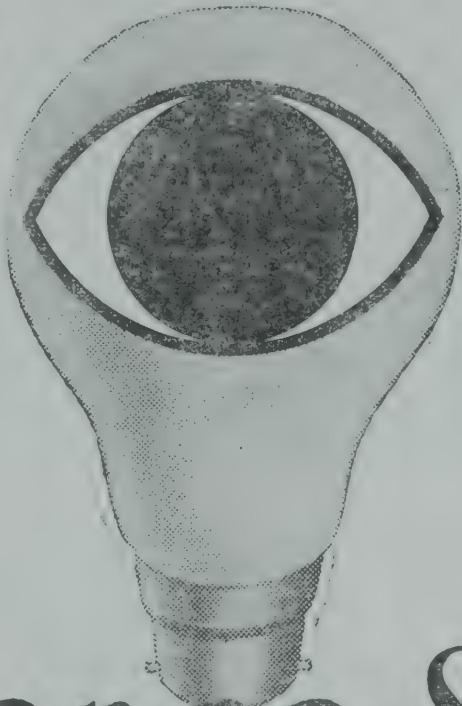

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Delhi Paints Corpn., M-51, Con. Circus, New Delhi 110001.

India Trading House, Fatehpuri, Delhi 110006.

International Paint Ind., 2/21, Roop Nagar, Delhi 110007.

Khurana Bros., 1742, Nai Basti, S. P. Mukerji Marg. Delhi 110006.

Kohinoor Paint Colour & Varnish Works, 155, Katra Baryan, Fatehpuri, Delhi 110006.

Mera Chemicals, Ajit Mansion, A. Gate, Delhi 110006.

Metro Paint Ind., 260, Kamla Market, New Delhi 110001.

Saluja & Son, 192, Katra Baryan, Fatehpuri, Delhi 110006.

Singal Paint Inds., 4834, Deputyganj, Delhi 110006.

Spraylac Paints Corpn., 9, N. Subash Marg, Darya Ganj, New Delhi 110002.

Uppal Paint Ind., 11/24, East Patel Nagar, New Delhi 110008.

Goa

Goa Paints & Allied Products, Dempo House, Campal, Panaji 403001.

Gujarat

Anchor Paint Manufg. Co., 959, Chandra Chambers, Raipur Chakla, Ahmedabad 380001.

Comet Paints Pvt. Ltd., A. Sojitra Rd., Vallabh Vidyanagar 388120.

Goodluck Oil & Paints, Pratap Nagar, Vadodara 39

Lead Slips Products Pvt. Ltd., Odhav Rd., Ahmeda 380021.

Paradise Oil & Paints Products, N. I. Muni Ind. Este Bapunagar, Ahmedabad 380023.

Saurashtra Paints Pvt. Ltd., Vatva, Ahmedabad 3824

Valian Paints Pvt. Ltd., 38, Madhubhai Mills Com Ahmedabad 380018.

Haryana

Kohinoor Paint Colour & Varnish Works, 14/5, Math Rd., Faridabad 121001.

Karnataka

Amar Paints & Allied Ind., M. M. Ind. Estate, Yedi Bangalore 560041.

Bangalore Enamels, Paints & Chemicals Ltd., XI M Rd., Malleswaram, Bangalore 560003.

Gemini Paint & Varnish Co., 15, Banswadi Rd., Banga 560005.

Mysore Lac & Paint Works Ltd., Edigara Extn., My 570007.

Mysore Paint & Waterproof Ltd., Myrtle Villa, H- Bangalore 560017.

Kerala

Rainbow Paint Inds., Calicut 673003.

Madhya Pradesh

Commercial Paint & Chemicals Works, Laxmibhai N Ind. Estate, Indore 452002.

Synpro Ind., 50-51, Ind. Estate, Indore 452003.

Maharashtra

Advance Paints Pvt. Ltd., 125, N. Master Rd., Bom 400001.

Anand Chemicals, 8, Horniman Circle, Bombay 400

Asian Paints (India) Pvt. Ltd., 'Nirmal', Nariman P Bombay 400021.

Atomic Paint Ind., Sonawala Estate, Goregaon (E Bombay 400063.

Auxiliaries & Chemicals, 12-B, Dean Lane, Bom 400001.

Baker Bros., 31, C. P. Tank Rd., Bombay 400004.

Bharat Varnish Manufg. Co., L. B. Shastri Marg, G kopar, Bombay 400086.

Blundell Eomite Paints Ltd., Marine Chambers, Marine Lines, Bombay 400020.

Bombay Paints & Allied Products Ltd., Oricon Hous Rampart Row, Bombay 400023.

Bright & Co. Pvt. Ltd., Saki Vihar Rd., Sakin Bombay 400072.

Carbon Dry Colour Works, 115, Nagdevi St., Bom 400003.

Chemo Age Ind., Rambaug, Chincholi, S. Vivekanand Malad (West), Bombay 400064.

Chowgule & Co. (Hind) Pvt. Ltd., India House, Bom 400001.

Colour Chem Ltd., 194, Churchgate Reclamation, Bo 400020.

Cooper & Co., 53, Abdul Rehman St., Bombay 400

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Dr. Beck & Co. (I) Ltd., Bombay-Pune Rd., Pimpri, Pune 411018.

Dujodwala Ind., Prasad Chambers, Near Roxy Cinema, Bombay 400004.

Dura Chemical Corpn. Pvt. Ltd., Wakefield House, 11, Sprott Rd., Ballard Estate, Bombay 400038.

Elphinstone Paint & Colour Manufg. Co., 50, Elphinstone Rd., Bombay 400013.

Esdee Paints, Near Power House, Kolshet Rd., Thane 400601.

F. Victor & Co. 167, A. Rehman St., Bombay, 400003.

Firoz Colour Ind., 66, A. Umer St., Bombay 400003.

Forage & Co., 48, S. Patkar Marg, Bombay 400007.

General Pigment & Chem. Prod. Pvt. Ltd., Saki Vihar Rd., Saki Naka, Bombay 400072.

Goodlass Nerolac Paints Ltd., Forbes Bldg., Charanjit Rai Mrg., Bombay 400001.

Indofil Chemicals Ltd., Nirlon House, Dr. A. Besant Rd., Worli, Bombay 400025.

Industrial Coatings Corpn., T. K. Ind. Estate, Off Acharya Donde Marg, Sewri, Bombay 400015.

Industrial Minerals & Chemicals Co., 125, N. Dhuru St., Bombay 400003.

Jayant Colour & Chemical Ind., Gupta Mill Estate, Darukhana, Reay Rd., Bombay 400010.

Jyoti Oil & Paint Co., Morarji Velji Estate, Gorai Rd., Borivli (West), Bombay 400092.

Kamal Paint Ind., Ram Mandir Ind. Premises, Ram Mandir Rd., Goregaon East, Bombay 400063.

Kapadia Bros., 81, A. Rehman St., Bombay 400003.

Khurana & Sons, I. B. Patel Rd., Goregaon (East), Bombay 400063.

Mercury Paint & Varnish Pvt. Ltd., Agar Bazar, Off Cadell Rd., Dadar, Prabhadevi, Bombay 400028.

Metalex Ind., Junction Tata-Agra Rd., Bhandup, Bombay 400078.

Midland Ind., 47, Great Nag Rd., Nagpur 440003.

National Paint Manufg. Co., Commercial Chambers, Masjid Bunder Rd., Bombay 400003.

Navyug Colour & Chemical Inds., Dhanwant Singh Indl. Estate, Datta Mandir Rd., Bombay 400078.

Noble Paint & Varnish Co. Pvt. Ltd., Fergusson Rd., Bombay 400013.

Panama Paint Ind., J. B. Nagar, M. V. Rd., Kondivita Lane, Andheri (East), Bombay 400058.

Pidilite Ind. Pvt. Ltd., Mafatlal House, Backbay Recl., Bombay 400020.

Pioneer Enamelling Works, Lakshmi Bldg., Sir P. Mehta Rd., Bombay 400001.

Polymer Finishes, 8, T. Jivaraj Wadi, Off King Edward Rd., Sewree, Bombay 400015.

Poysha Ind. Co. Ltd., Messant Rd., Bombay 400033.

R. R. Paint Ind. (I) Pvt. Ltd., L. B. Shastri Mrg., Bhandup, Bombay 400078.

R. T. Mehta & Co., Saki-Vihar Rd., Bombay 400072.

Rainbow Colour Works, I. B. Patel Rd., Goregaon (East), Bombay 400063.

Ranbir Paint & Varnish Co. Pvt. Ltd., 126, D. Phalke Rd., Bombay 400014.

Raymond (India) Paint Mfg. Co., Gajanan Smriti Bldg., Near Natraj Talkies, Chembur, Bombay 400071.

Reliable Colour Works, 61, Jail Rd. (North), Bombay 400009.

Sarang Paint & Varnish Ind., Masoli, Dahanu Rd., 401602 (W. Rly.).

Saurashtra Paints Pvt. Ltd., Court Chambers, New Marine Lines, Bombay 400020.

Savlar Paint & Varnish Works Pvt. Ltd., Saki Vihar Rd., Saki Naka, Bombay 400072.

Sigma Paints Ltd., 221, Dr. D. Naoroji Rd., Bombay 400001.

Snehadeep Paints, 354, Great Nag Rd., Utkhana Lay Nagpur 440009.

Snowcem India Ltd., 31, Murzban Rd., Bombay

Star Paint & Oil Ind., Crescent Chambers, Tamarind Lane, Bombay 400023.

Sudarshan Chemical Ind. Pvt. Ltd., 162, Wellesley Rd., Pune 411002.

Superior Paint Industries, Irani Wadi, Kandivli, Bombay 400067.

Union Paint & Chemical Co., 1, Indian Metal Rolling M. Compound, L. B. S. Marg, Vikhroli, Bombay 400083.

United Colour Co., 26-A, A. R. Rangnekar Marg, French Bridge, Bombay 400007.

Universal Paint Corpn. Pvt. Ltd., Morashi Rd., Bombay 400059.

Urvashi Ind., Block No. 16/A, Bombay Cotton Mills Estate, Kalachowki Rd., Bombay 400033.

Wakefield Paint Pvt. Ltd., 80, S. Vivekanand Rd., Jogeshwari, Bombay 400060.

Rajasthan

Alwar Paint, Colour & Varnish Works Ltd., Indl. Area, Alwar 301001.

Tamil Nadu

Addisons Paints & Chemicals Ltd., Huzur Gardens, Sembiam, Madras 600011.

Anuradha Paints, 149/1, Ramapuram, Mt. Poonamallee High Rd., Madras 600089.

British Paints India Ltd., 69, Peters Rd., Madras 600086.

Gasar Bros., Tuticorin 628003.

Madras Enamel Works, Ltd., 65, Sydenham Rd., Madras 600003.

Ravi Paints & Chemicals Ltd., 85-87, Armenian St., Madras 600001.

Shalimar Paints Ltd., 11/12, Second Line Beach, Madras 600001.

Snow White Indl. Corpn., 368, T.H. Rd., Madras 600021.

Uttar Pradesh

Bansilal & Sons, Sahibabad, Ghaziabad 201001.

Chemi Chrome Ind. Pvt. Ltd., 84/79, G. T. Rd., Kanpur 208001.

Eagle Paint & Pigment Inds. Pvt. Ltd., Rampur Village, Beohra, Mirzapur Rd., Naini 211008.

J. M. Inds. Pvt. Ltd., Chakraba Rd., Saharanpur

Modi Paint & Varnish Works, Modinagar 201204.

Nagrath Paints Pvt. Ltd., 46, Fazalganj, Kanpur

National Chemical Works, P.B. No. 90, Varanasi

Punjab Paint Colour & Varnish Works, 123/529, Fazalganj, Kanpur 208001.

Reko Mercantile Traders, 28, Blunt Square, Lucknow 226001.

West Bengal

Alkali & Chemical Corpn. of India Ltd., 18, Strand Rd., Calcutta 700001.

Asiatic Paints & Chemicals, 3, Commercial Bldg., N. Subhas Rd., Calcutta 700001.

Associated Pigments Ltd., 14, N. Subhas Rd., Calcutta 700001.

Belur Paint & Colour Co., 2, Mullick St., Calcutta 700007.

Bengal Enamel Works Ltd., 24, Chittaranjan Ave., Calcutta 700012.

Bharat Tin & Enamel Co. Pvt. Ltd., 2–A, Shakespeare Sarani, Calcutta 700016.

Blue Star Enamelware Co. Pvt. Ltd., 4, Dalhousie Sq. East, Calcutta 700001.

British Paints (I.) Ltd., 32, Chowringhee Rd., Calcutta 700016.

Calcutta Paint Colour & Varnish Works, 8, Chunapukur Lane, Calcutta 700012.

Containers & Closures Ltd., 2, Fairlie Place, Calcutta 700001.

Eagle Paint & Pigment Ind. Pvt. Ltd., 135, B. R. B. B. Rd., Calcutta 700001.

East India Paint & Chemical Works Ltd., 21, G. C. Bose Lane, Calcutta 700050.

Empire Chemical Co., 5, Kustia Rd., Calcutta 700039.

Ferro Coatings & Colours Ltd., P.O. Joka, 24 Parganas.

General Paint Co. of India, G.P.O. Box 2673, Calcutta 700001.

Hoyle's Paints Ltd., 2, Mangoe Lane, Calcutta 700001.

Indian Paint Colour & Varnish Co. Ltd., 14, N. Subhas Rd., Calcutta 700001.

Jenson & Nicholson (I.) Ltd., 225, A. J. Bose Rd., Calcutta 700020.

Kem Ind. Products Pvt. Ltd., 40, Tangra Rd., Calcutta 700015.

Lakshmi Paint Works, 14/2, Old China Bazar St., Calcutta 700001.

M. L. Day & Co., 36, G. C. Ave., Calcutta 700013.

Macfarlane Paints, 18, R. N. Chowdhury Rd., Calcutta 700015.

Murarka Paint & Varnish Works Pvt. Ltd., 4E, Dalhousie Square East, Calcutta 700001.

N. Haldar & Co. Pvt. Ltd., 21/D, S. Chatterjee St., Calcutta 700006.

Napier Paint Works Pvt. Ltd., 1/2, Moti Sil St., Calcutta 700013.

Narayan Chowdhury Bros. Pvt. Ltd., 2, B.B.D. Bag East, Calcutta 700001.

Paints & Chemicals Co., 10, Govt. Place East, Calcutta 700069.

Paints & Lacquers, 3/A, Kabir Rd., Calcutta 700026.

P. C. Chanda & Co. Pvt. Ltd., P-15/1, Chowringhee Sqr., Calcutta 700069.

Ruby Paint & Varnish Works Pvt. Ltd., 96, M. Gandhi Rd., Calcutta 700007.

Shalimar Paints Ltd., 13, Camac St., Calcutta 700017.

Solar Paints Pvt. Ltd., 14, Barrackpore Trunk Rd., Calcutta 700056.

Superlite Paints Corpn., 28, A. T. Mukherji Rd., Calcutta 700020.

Sur Enamel & Stamping Works Ltd., 24, Dr. L. M. Bhattacharya Rd., Calcutta 700014.

Technico Enterprises Pvt. Ltd., 592, Block 'O', New Alipore, Calcutta 700053.

United Paint Ind., 40/1, Strand Rd., Calcutta 700001.

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Bombay Board & Paper Mills Pvt. Ltd., Hamam House, Hamam St., Bombay 400001.

Handmade Paper Directorate, Khadi & Village Ind. Commission, Bombay 400056.

Jayant Paper Mills Ltd., 132, Dr. A. Besant Rd., Bombay 400018.

Nath Pulp & Paper Mills Ltd., Adalat Rd., Aurangabad 431001.

Om Prakash Jitendra Kumar & Co., 63, Daryaganj, New Delhi 110002.

Pudumjee Pulp & Paper Mills Ltd., Thergaon, Chinchwad, Pune 411033.

Seshasayee Paper & Boards Ltd., Erode 638007.

Sugam Paper & Board Mills Pvt. Ltd., Ninat, Surat Dist.

Swastik Paper Ind., Sewree Cross Rd., Bombay 400015.

Tungabhadra Pulp & Board Mills, Munirabad 583234. (Raichur Dist.).

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Diamond Products Ltd., 4, Clive Row, Calcutta 700001.

Natraj Paper Ind., 38/46, Nagdevi St., Bombay 400003.

New Field Paper Inds. & Paper Convertors, Ravi Uday Press Compd., Tilak Rd., Ghatkopar East, Bombay 400077.

Pai Paper & Allied Ind. Pvt. Ltd., Khorshed Bldg., Sir P. M. Rd., Bombay 400001.

Strawboard Manufg. Co. Ltd., Saharanpur 247001, U.P.

PAPER—HANDMADE

Jayant Paper Mills Ltd., Utran 394105, Surat Dist.

Khadi & Village Industries Commission, Irla Rd., Vile Parle (W), Bombay 400056.

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Sehgal Papers Ltd., 55, Nehru Place, New Delhi 110024.

Siddhomal Paper Conversion Co., Chawri Bazar, Delhi 110006.

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Perfect Paper Cone & Tube Pvt. Ltd., 47-A, Virwani Ind. Estate, Goregaon (E), Bombay 400063.

Poly-Cone Paper Pvt. Ltd., 213, Udyog Mandir, Bldg. No. 1, 7/C, Pitamber Lane, Mahim, Bombay 400016.

Textile Paper Tubes (India), Jolly Bhuvan, 10, New Marine Lines, Bombay 400020.

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Industrial Paper Machine Pvt. Ltd., 29, Sona Udyog Ind. Estate, P. P. Rd., Andheri (E), Bombay 400069.

Paper Mill Plant and Machinery Manfrs. Ltd., 181, Vivekanand Rd., Bombay 400060.

Victor Machine Tools, 18, Kamruddin Ind. Estate, Kurla Andheri Rd., Bombay 400072.

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Acme Papers, Herald House, B. Shah Zafar Mrg., New Delhi 110002.

Ajanta Paper & General Products Pvt. Ltd., Aban House, 5th Fl., Rope Walk Lane, Bombay 400001.

Amaravathi Sri Venkatesa Paper Mills Ltd., Palani Rd., Madathukulam 642113 (T. Nadu).

Andhra Pradesh Paper, Rajahmundry 533101. (A.P.).

Andrew Yule & Co. Ltd., 32, Nicol Rd., Ballard Estate, Bombay 400038.

Ashok Paper Mills Ltd., P. O. Ashok Paper Mills 783388, Goalpara Dist. (Assam).

Ballarpur Inds. Ltd., Ballarpur 442901 (Chandrapur Dist.). Maharashtra.

Basant Paper Mills Ltd., 8, Camac St., Calcutta 700017.

Bengal Paper Mills Co. Ltd., Raniganj 713347. (Burdwan Dist.), W. Bengal.

Bertrams Scott India Ltd., 1/1, Kimber St., Calcutta 700017.

Bombay Paper Manufg. Co., 109, Sheikh Memon St., Bombay 400002.

Continental Paper Mills (India), P.O. Mayithara Market 688539 (Kerala State).

Delta Paper Mills Ltd., Sriramapuram, Bhimavaram 534202. (W. Godavari Dist.), A.P.

East Coast Paper & Products Pvt. Ltd., 20, British Indian St., Calcutta 700069.

Eastern Paper Mills Ltd., 1, Dakshindari Rd., Calcutta 700048.

Goyal Bros., 4033, Chawri Bazar, Delhi 110006.

India Paper & Pulp Co. Ltd., Hazinagar 743135 (24 Parganas Dist.).

Ipco Paper Mills Ltd., Elphinstone Mills Compd., N. M. Joshi Mrg., Bombay 400013.

Jayant Paper Mills Ltd., 132, Dr. A. Besant Rd., Worli, Bombay 400018.

Kabini Papers Ltd., No. 3969, Mysore Nilgiri Highway, Nanjangud 571301. (Karnataka State).

Kolleru Papers Ltd., Marellavari St., Bhimavaram 534201, A.P.

Mandya National Paper Mills Ltd., Belagula 571606. (Karnataka).

Mukerian Papers Ltd., SCO 817–18, Sector 22/A, Chandigarh 160022.

Mysore Paper Mills, Ltd., Bhadravati 577301.

New Field Paper Industries, 48, 2nd Carpenter St., Khetwadi Main Rd., Bombay 400004.

Orient Paper Mills Ltd., Brajrajnagar 768216, Sambalpur Dist., Orissa.

Pai Paper & Allied Inds. Pvt. Ltd., Khorshed Bldg., Sir P. Mehta Rd., Bombay 400001.

Paper & Pulp Conversion Ltd., 376, Shukrawar Peth, Pune 411002.

Papyrus Papers Ltd., 4, India Exchange Place, Calcutta 700001.

Pondicherry Paper Mills Ltd., Pilliarkuppam, Bahour Commune, Pondicherry 607402.

Pravara Pulp & Paper Mill, Pravaranagar 413712. Ahmednagar Dist.

Punalur Paper Mills Ltd., Punalur 691305. (Kerala State).

Rohit Pulp & Paper Mills Ltd., Rohit Chambers, Ghoga St., Bombay 400001.

Rohtas Industries Ltd., P.O. Dalmianagar 821305. Bihar.

Sarvodaya Paper Mills Ltd., 705, Akash Deep, 26A, Barakhamba Rd., New Delhi 110001.

Shree Rayalaseema Paper Mills Ltd., TGL Bldgs., Adoni 518301, A.P.

Shree Vindhya Paper Mills Ltd., Empire House, 214, Dr. D. Naoroji Rd., Bombay 400001.

Sivalik Cellulose Ltd., Dakshineshwar, 10, Hailey Rd., New Delhi 110001.

South India Paper Mills Pvt. Ltd., Nanjangud 571301. (Karnataka).

Standard Paper Ind. Corpn., 151, Broadway, Madras 600001.

Star Paper Mills Ltd., 27, Brabourne Rd., Calcutta 700001.

Titaghur Paper Mills Co. Ltd., Chartered Bank Bldgs., Calcutta 700001.

Tribeni Tissues Ltd., 3, Middleton St., Calcutta 700007.

Union Paper & Board Mills Ltd., 18, N. Subhas Rd., Calcutta 700001.

Universal Paper Mills Ltd., 75C, Park St., Calcutta 700016.

Vapi Paper Mills Ltd., G.I.D.C., Vapi 396191. (Gujarat).

Vidarbha Paper Mills Ltd., Bank of Maharashtra Bldg., Sitabuldi, Nagpur 440012.

West Coast Paper Mills, Shreeniwas House, H. Somani Marg, Bombay 400001.

Western India Paper & Board Mills Pvt. Ltd., L. B. S. Mrg., Vikhroli, Bombay 400083.

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Maharashtra

Asian Art Ind., 30, Govt. Ind. Estate, Kandivli West, Bombay 400067.

Asian Pen & Plastic Inds., 424-A, Raut Ind. Estate, S. B. Mrg., Mahim, Bombay 400016.

Associated Pen Inds., Udyognagar, S. V. Rd., Bombay 400062.

Balkrishna Pen Pvt. Ltd., Nagardas Rd., Andheri (E), Bombay 400069.

Chandra Industries, Old Nagardas Rd., Andheri (E), Bombay 400069.

Dhiraj Pen Manufg. Co. Pvt. Ltd., 58/59, Kurla-Andheri Rd., Bombay 400069.

Exen Inds., Parekh Nagar, S. Vivekanand Rd., Bombay 400067.

Mhatre Pen and Plastic Ind. Ltd., Tulsi Pipe Rd., Dadar, Bombay 400028.

National Plastic Inds., 5, Rewa Chambers, New Marine Lines, Bombay 400020.

Pankaj Pen Ind., I. B. Patel Rd., Goregaon East, Bombay 400063.

Premier Products, Anuj Plastic, New Bldg., G. B. Rd., Dahisar, Bombay 400068.

Thakkar Pen Mart, 220A, Janjikar St., Bombay 400003.

Triplex Products, Agarwal Est., 139, G. S. Vivekanand Rd., Jogeshwari West, Bombay 400060.

Watumull Ind. Pvt. Ltd., Delstar, 9-9A, S. Patkar Rd., Bombay 400026.

Tamil Nadu

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Bombay Perfumery Co., 1997, Gali Nilawali, Sitaram Bazar, Delhi 110006.

Calcutta Perfumery Co., Behind Mahalaxmi Market, Chandni Chowk, Delhi 110006.

Gogia Chemical Ind., G-1/4, Model Town, Delhi 110009.

Gupta & Co., Sadar Bazar, Delhi 110006.

Gulab Singh Johri Mal, 320, D. Kalan, Delhi 110006.

J. K. Ind. Perfumers, 7, Shankar Market, 1430, Chitli Qubar, Delhi 110006.

Madras Chemical Works, Tilak Bazar, Delhi 110006.

Mohanlal Pyarelal, 5594/91, Gandhi Market, Sadar Bazar, Delhi 110006.

Navin Bharat Mfrs., D-373, Defence Colony, New Delhi 110024.

Sohan Singh Attarwala & Son, 6484, Katra Baryan, Fatehpuri, Delhi 110006.

Sunder Chemicals & Aggarbatti Works, 1716/21, Behind Pili Kothi, S. P. Mukherjee Marg, Delhi 110006.

Gujarat

J. B. Shah & Co., Pankaj Society, Sarkhej Rd., Ahmedabad 380007.

M. L. Rathod & Co., Opp. Gaisford Talkies, Rajkot 360001.

National Agarbatti Works, Station Rd., Nadiad 387001.

Neepo Aromatics, Opp. Central Bus Stn., Dhebarbhai Rd., Rajkot 360001.

R. V. Dodia & Co., Dodia Mansion, M. Gandhi Rd., Rajkot 360001.

Vala & Co., Nanbhawadi, Bhavnagar 364002.

Karnataka

Ananth Agarbathi Co., 11, Stores St., Kalasipalayam, Bangalore 560002.

Aravinda Parimala Works, Mysore 570004.

Aromatik (I) Pvt. Ltd., 38, Link Rd., Malleswaram, Bangalore 560003.

Aswathiah & Bros., B. V. (Regd.), 183, Nagarti
Bangalore 560002.

Bharani Agencies, "Keshava Nivas", First Main, Ga
Nagar, Bangalore 560009.

Bharat Ind. Corpn., 67, Third Cross Rd., Srirampu
Bangalore 560021.

Gayathri Perfumery Works, 27, Kalasipalayam New E
Bangalore 560002.

Goodwill Agencies, "Keshava Nivas", First Main, Ga
Nagar, Bangalore 560009.

Manohara Perfumery Works, 24, Sowrashtra Peth, Ba
lore 560002.

Modern India Trading Co., 5, Park Rd., Bangalore 56

Mysore Agarbatti Co., 1, Madarsab St., Bangalore 560

Mysore G. S. Sugandha Works, Benkey Navab
Bangalore 560002.

Mysore Sugandhi Dhoop Factory Pvt. Ltd., No. 1, G-13,
Cottonpet, Bangalore 560002.

N. Rangarao & Sons, 100 ft. Rd., Mysore 570001.

Padma Perfumery Works, Post Box 7826, Bang
560053.

Saibaba Sugandhi Bhandar, 30/6, Church St., Sh
Nagar, Bangalore 560027.

Sankranti Agarbatti Co., 33, Pillappa Lane, Nagart
Cross, Bangalore 560002.

Sarathi Perfumery Works, Ganigarpet, Bangalore 560

Sri Satyanarayana Parimala Factory, Mysore 5700

Sunanda Aromatic Ind., D-14, Sayyaji Rao Rd., My
570001.

Super Perfumery Works No. 7, 1st Cross, Police
Ramsinghpet, Bangalore 560053.

Y. Basappa, 206, Avenue Rd., Bangalore 560002.

Maharashtra

A. A. Attarwala & Co., Commercial Chambers,
Zakaria Masjid, Bombay 400003.

A. Hami Bros., 8, Patka Manzil, E. Rahimtoolla
Bombay 400003.

A. J. Patwa & Co., 86, Sutar Chawl, Bombay 400002.

Acharya Products, 6, Sangeet Sagar, Laxminarayan L
Bombay 400019.

Amba Perfumery Works, 37/38, Lokmanya Tilak (
Mkt., Grant Rd., Bombay 400007.

Aromatic & Ind. Chemicals Pvt. Ltd., Mulji Jetha B
12, Champa Galli Cross Lane, Bombay 400002.

Aromatic Products & Chemicals Pvt. Ltd., 42, Pro
Chambers, Dr. D. Naoroji Rd., Bombay 400001.

Attari Bros., 3, Commercial Chambers, Masjid Ba
Rd., Bombay 400003.

Bay Keris Inds., 825, S. K. Bhole Rd., Bombay 4

Calcutta Essence Supply Co., Mulchand Mansion, Sha
das Gandhi Mrg., Bombay 400002.

Camphor & Allied Products Ltd., Jehangir Bldg.,
M. Gandhi Rd., Bombay 400023.

D. D. Shah & Co., Damodar Bldg., 105, S. Gandhi M
Bombay 400002.

Dujodwala Ind., 1401, Prasad Chambers, Near R
Cinema, Bombay 400004.

Eastern Aromatics Pvt. Ltd., Datta Mandir Rd.,
Bombay 400078.

Enamdar Trading Co., Devkaran Mansion, 63, S.
Marg, Bombay 400002.

Ethical Products (I) Pvt. Ltd., Advani Chambers,
Mehta Rd., Bombay 400001.

Foreign Scent Supplying Syndicate, Station Rd., Goregaon West, Bombay 400062.

Fragrance and Flavour Corpn., C-11, Udyog Sadan, Marol Ind. Area, Andheri East, Bombay 400059.

Gelax Ind. Perfumers, A-4, Shivaji Service Ind., Taikalwadi Rd., Bombay 400016.

Gosha Kemo (I), Magan Bldg., C. Patel Rd., Bombay 400067.

Gupta & Co., Saraf Mansion, S. Gandhi Marg, Bombay 400002.

H. M. Zakaria & Bros., 299, V. Patel Rd. East, Bhendi Bazar, Bombay 400003.

Hami & Co., Devkaran Mansion, 43, Princess St., Bombay 400002.

Hemani Aromatics, Minerva Movietone Compound, Bunder Rd., Sewri, Bombay 400015.

Ina Trading Co., 107, S. Gandhi Marg, Bombay 400002.

Industrial Perfumes Ltd., Hay Bunder Rd., Bombay 400033.

J. D. Savant & Co., Gordhandas Khimji Bldg., 35, Vithaldas Rd., Bombay 400002.

Kanta Flavouring Industries, A-15, Royal Indl. Estate, Naigaum Cross Rd., Bombay 400031.

Kausar Perfumers, 325, Sheikh Memon St., Bombay 400002.

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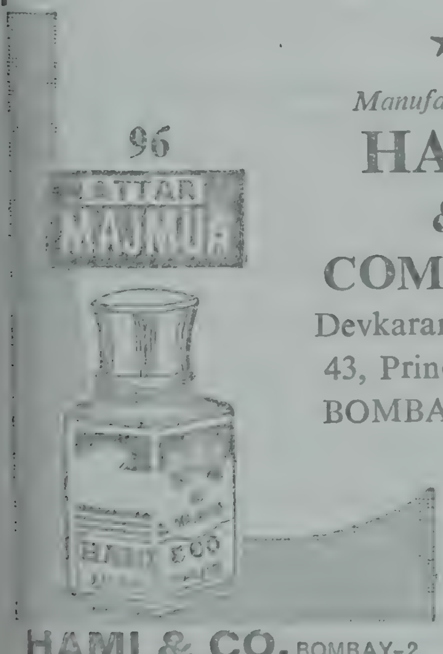

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Mysore Sugandhi Dhoop Factory P. Ltd., 13, Commercial Chambers, Near Jakaria Masjid, Bombay 400003.

Mysore Y. S. Agarbatti Works, 6, Arab Lane, Byculla, Bombay 400008.

Naarden Chemical Works (I) Ltd., Sakinaka, 6, Saki Vihar Rd., Bombay 400072.

National Essence Supply Co., Tanksal Bhavan, 191, Kalbadevi Rd., Bombay 400002.

National Trading Co., 190-91, Mangaldas Rd., Bombay 400002.

New India Aromatics Co., Devkaran Mansion No. 3, 45/47, S. Gandhi Marg, Bombay 400002.

Oriental Aromatics, Saraf Mansion, 32, S. Gandhi Marg, Bombay 400002.

P. M. Rathod & Co. Pvt. Ltd., 453, Kalbadevi Rd., Bombay 400002.

Pearline Paris Pvt. Ltd., Rehman Bldg., 24, V. Nariman Rd., Bombay 400001.

Quality Exports, Manu Mansion, 16, Shahid Bhagat Singh Rd., Bombay 400023.

R. C. Aromatics & Chemicals, 139, Vivekananda Rd., Bombay 400060.

Rayon Ind., Navyug Mansion, N. Barucha Rd., Grant Rd., Bombay 400007.

S. H. Kelkar & Co., Pvt. Ltd., 36, Mangaldas Rd., Bombay 400002.

Saiba Ind. Pvt. Ltd., 129/31, K. Syed St., Bombay 400002.

Satish Perfumers, 12-B, Shalimar Indl. Estate, Bombay 400019.

Shah Agarbatti Co., 66, Kalyan St., Bombay 400009.

Spac Aromas, Planet Indl. Estate, Subhash Rd., Bombay 400057.

Synoflor Co., Saraf Mansion, 32, S. Gandhi Marg, Bombay 400002.

Synthetics & Aromatics, 1/C, Kulsum Terrace, Walton Rd., Colaba, Bombay 400039.

Western India Chemical Co., Anand Nivas, Srikrishna Nagar, Bombay 400066.

Pondicherry

Flavours India Pvt. Ltd., Shed Nos. 5 & 14, Type C, Mettupalayam Ind. Estate, Pondicherry 605001.

Tamil Nadu

Devi Industries, 19/20, Azad St., Gandhi Nagar, Madurai 625020.

K. B. Perfumeries, 25, Rasappa Chetty St., Madras 600003.

Maschmeijer Aromatics (India) Pvt. Ltd., G. S. T. Rd., Madras 600044.

Mercantile Corn., 21, Third St., Gopalapuram, Madras 600086.

Millet Rochas Pvt. Ltd., 5, Tank Bund Rd., Madras 600034.

Robin Chemicals Pvt. Ltd., 1A/4, N. M. M. Rd., Aminjikarai, Madras 600029.

West Bengal

Calcutta Essence Supply Co., 41, Ezra St., Calcutta 700001.

Jamnadas & Brothers Pvt. Ltd., 1, Bonfield Lane, Calcutta 700001.

Moolraj & Co., 33, Brabourne Rd., Calcutta 700001.

Mukti Agencies, 69-B, Salimpur Rd., Calcutta 700031.

National Aromatic Co., 70, B. R. B. B. Rd., Calcutta 700001.

National Perfumery House, 44/45, Ezra St., Calcutta 700001.

Pushpa Perfumery Products, 17, Lower Chitpur Rd., Calcutta 700001.

United Trades Agency (Calcutta), 34, Armenian St., Calcutta 700001.

Vesco Products Co., 66, Ezra St., Calcutta 700001.

PESTICIDES

Andhra Pradesh

Hyderabad Chemical Supplies Pvt. Ltd., Bank St., Hyderabad 500001.

Vayaz Indian Pesticides Pvt. Ltd., 16-B, Moula Ali Ind. Estate, Hyderabad 500040.

Delhi

Dow Chemicals N.V., 14, Golf Links, New Delhi 110003.

Grain Conservation & Warehousing Ind. Pvt. Ltd., 16-B, Gangaram Hospital Marg, New Delhi 110060.

Hardy's Pest Control Services, 1620, Bahadurgarh Rd., Delhi 110006.

Hindustan Insecticides Ltd., E-3, Defence Colony, New Delhi 110024.

Industrial & Allied Sales Pvt. Ltd., Surya Kiran, 19, K. Gandhi Marg, New Delhi 110001.

Industrial Chemicals & Minerals, 4/5-B, A. Ali Rd., New Delhi 110002.

Jaipal Udyog, 604, Akash Deep, 26-A, Barakhamba Rd., Connaught Lane, New Delhi 110001.

Monsanto Chemicals of India Pvt. Ltd., 3,6, A. Ali Rd., New Delhi 110002.

Northern Minerals Pvt. Ltd., [illegible] Delhi 110001.

Pesticides India, 16, Ring Rd., Lajpat Nagar IV, New Delhi 110024.

Voltas Ltd., 10-A, K. Gandhi Rd., New Delhi 110001.

Goa

Ciba-Geigy of India Ltd., Santa Monica Plant, Corlim, Ilhas 403110.

Goa Pesticides Pvt. Ltd., Chowgule House, Margao [illegible]

Gujarat

Alembic Chemical Works Co. Ltd., Alembic Rd., V dara 390003.

Cropmore Pvt. Ltd., C-5 Naroda Ind. Estate, P.O. N 382330. Ahmedabad Dist.

Selective Chemicals Pvt. Ltd., Ruvapari Rd., Bha 364001.

Karnataka

Agromore Ltd., Mysore Rd., Bangalore 560026.

Bangalore Pesticides Ltd., 33, Abshot Rd., Sankey Rd. Cross, Bangalore 560052.

Krishichemin Products, Jayanagar, Bangalore 560011.

Kerala

Aspinwall and Co. Ltd., Calvethy, Cochin 682001.

Entoma Insecticides & Agro Chemicals, "Ram Kripa", Yakkara Rd., Palghat 678001.

Travancore Chemical Manufg. Co. Ltd., Alwaye 683

Madhya Pradesh

✓National Pesticides, 5, Ind. Area, Vidisha 464001.

Maharashtra

Ashok Traders, 129-C, Govt. Ind. Estate, Kand Bombay 400067.

Bayer (India) Ltd., Express Towers, Nariman Bombay 400021.

Bharat Pulverising Mills Pvt. Ltd., Hexamar House, 28, Sayani Rd., Bombay 400025.

Bombay Chemicals Pvt. Ltd., 129, M. Gandhi Rd., Bom 400023.

Bombay Fumigation Co. Pvt. Ltd., 93, Bazargate St., Bombay 400001.

Camphor & Allied Products Ltd., Jehangir Bldg., 133, M. Gandhi Rd., Bombay 400023.

Central Insecticides & Fertilizers, Vihar Lake Rd., Naka, Bombay 400072.

Dai-Ichi Karkaria Pvt. Ltd., Liberty Bldg., New M Lines, Bombay 400020.

Excel Ind. Ltd., 184-87, S. Vivekanand Rd., J Bombay 400060.

Farm Chemicals Ltd., Advani Chambers, Sir P. Mehta Rd. Bombay 400001.

Hico Products Pvt. Ltd., Mogal Lane, Mahim, Bomb 400016.

Indofil Chemicals Ltd., Nirlon House, Dr. A. Besant Rd. Bombay 400025.

Industrial Minerals & Chemical Co., 125, N. Dhuru St. Nagdevi, Bombay 400003.

Khandesh Pesticides Pvt. Ltd., Jolly Maker Cham Room No. 97, Nariman Point, Bombay 400021.

National Organic Chemical Ind. Ltd., Sandoz Dr. A. Besant Rd., Bombay 400018.

New Chemi-Mineral Mills Pvt. Ltd., Ashok Nagar Cross Rd. No. 1, Kandivli (East), Bombay 400067.

Pest Control (India) Pvt. Ltd., Yusuf Bldg., M. Gandhi Rd., Bombay 400023.

Pestokem Ind. Pvt. Ltd., 40/3, Shankar Vihar, 17th Rd., Chembur, Bombay 400071.

Rallis India Ltd., Ralli House, 21, Ravelin St., Bombay 400001.

Sai-Chemie International, 203, Pushpa Bhavan, Opp. Telephone Bhavan, Colaba, Bombay 400005.

Sandoz (India) Ltd., Sandoz House, Dr. A. Besant Rd., Worli, Bombay 400018.

Saromal Products, Jehangir Villa, 107, Wodehouse Rd., Colaba, Bombay 400005.

Star Chemicals (Bombay) Pvt. Ltd., 21, Noble Chambers, Parsi Bazar St., Bombay 400001.

Sudhir Chemical Co., 524, Sayani Rd., Bombay 400025.

Sviluppo Attivita Industrialie Commercialie, S.P.A., Saheb Bldg., 195, Dr. D. Naoroji Rd., Bombay 400001.

Tata Fison Ind. Ltd., 21, Ravelin St., Bombay 400001.

United Pestichem & Nonionics Pvt. Ltd., 23, Sir P. M. Rd., Bombay 400001.

Punjab

Punjab Saltpetre Refinery Ltd., Ind. Estate, Ferozepur City 152001.

Punjab United Pesticides & Chemicals Ltd., 76, Sector 8-A, Chandigarh 160018.

Tamil Nadu

Bharat Pulverising Mills Pvt. Ltd., 589, Tiruvottiyur High Rd., Madras 600019.

E.I.D. Parry (India) Ltd., Dare House, Madras 600001.

Geo Ind. & Insecticides (I.) Pvt. Ltd., Tiruvottiyur, Madras 600019.

Mettur Chemicals & Ind. Corpn. Ltd., Mettur Dam R.S., 636402. Salem Dist.

Mysore Insecticides Co. Pvt. Ltd., Andhra Bank Bldg., No. 6, Linghi Chetty St., Madras 600001.

West Bengal

Alkali & Chemical Corpn. of India Ltd., 18, Strand Rd., Calcutta 700001.

Croplife Chemicals Pvt. Ltd., 27, Bentinck St., Calcutta 700013.

India Alkalies Ltd., 5, Garstin Place, Calcutta 700001.

Kanoria Chemicals & Ind. Ltd., 9, Brabourne Rd., Calcutta 700001.

Metropole Chemical Ind., 73, N. Subhas Rd., Calcutta 700001.

Rajda Pesticides & Pest Control Corpn., 1, Portuguese Church St., Calcutta 700001.

Shaw Wallace & Co. Ltd., 4, Bankshall St., Calcutta 700001.

PETROLEUM PRODUCTS

Goa Carbon Ltd., Dempo House, Campal, Panaji 403001.

National Organic Chemical Industries Ltd., Mafatlal Centre, Nariman Point, Bombay 400021.

Petrosil Oil Co. Ltd., Steelcrete House, 3, Dinsha Wachha Rd., Bombay 400020.

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Starline Oil Co. (India), 123, E. M. Church Rd., Madras 600013.

Tide Water Oil Co. (India) Ltd., 32, Nicol Rd., B. Estate, Bombay 400038.

(Also see under Dealers and the chapter on 'Petroleum Industry').

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Associated Engg. Co., Geethmala Bldg., Central Avenue Rd., Chembur, Bombay 400071.

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P + AM Pharmaceutical & Allied Machinery Co. Ltd., 131, Kandivli Ind. Estate, Bombay 400067.

United Engg. Co., Ashok Villa, Vallabhbhai Rd., Vile Parle West, Bombay 400056.

PHARMACEUTICALS

(See under Drugs and Pharmaceuticals).

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Agfa-Gevaert India Ltd., 41, New Marine Lines, Bombay 400020.

Camera Works Pvt. Ltd., C/o Chowgule & Co. Hind Pvt. Ltd., India House, Fort St., Bombay 400001.

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New Delhi : Bank of Baroda Bldg., 16, Parliament Street, New Delhi. Telephone : 312838.
Grams : " SALESNOCIL."

Madras : Tiam House, 11/12, North Beach Road, Madras 600 001. Telephone : 20608.
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Color Crafts, 63 Panchkuin Rd., New Delhi 110055.
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National Instruments Ltd., Ansal Bhawan, K. Gandhi Mrg., New Delhi 110001.

Gujarat

Modern Photo Traders, 10, Jairaj Plot, Rajkot 360001.

Karnataka

Monotype Corpn. Ltd., 27th Cross, Banshankari, II Stage, Bangalore 560011.
Photo Craft, C-30, Ind. Estate, Rajajinagar, Bangalore 560010.

Maharashtra

Central Camera Works Pvt. Ltd., 195, Dr. D. Naoroji Rd., Bombay 400001.
Comet Ind. Corpn., Laxmi Woollen Mills Estate, Jagtap Marg, Mahalaxmi, Bombay 400011.
Kamal Process Studio, 219, B. Jayakar Marg, Bombay 400002.
National Instruments Ltd., K. Parikh House, 47, P. D'Mello Rd., Bombay 400009.
Photoray Ind., Gala Ind. Est., Mulund (W), Bombay 400080.
Rathod Brothers, Rambaug, Vivekanand Rd., Malad (West), Bombay 400064.

Orissa

National Instruments Ltd., Coll. Square, Cuttack 753003.

Tamil Nadu

Amco Engg. Corpn., G-10 & 11, Ind. Estate, Guindy, Madras 600032.
Devi Cine Projector Mfg. Co., B-7, Ind. Estate, Guindy, Madras 600032.
National Instruments Ltd., 150A/3, Anna Salai, Madras 600002.
Pandyan Studio, 29, Pycrofts Rd., Madras 600005.
Visual Education Aids, Old Pykara Bldg., Avanashi Rd., Coimbatore 641018.

West Bengal

Capital Photo Services Pvt. Ltd., 40, Lenin Sarani, Calcutta 700013.
National Instruments Ltd., 1/1, Raja S. C. Mullick Rd., Jadavpur, Calcutta 700032.
Photo Optical Pvt. Ltd., 44C, Indian Mirror St., Calcutta 700013.
Venus Industries (India), 121, New Santoshpur Ave., Calcutta 700032.

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Eastern Equipment Co., 5/1, Clive Row, Calcutta 700001.
India Electric Poles Mfg. Co., 2nd Lane, Darukhana, Bombay 400010.
Indian Hume Pipe Co. Ltd., Construction House, W. Hirachand Mrg., Bombay 400038.
Jindal Pipes Pvt. Ltd., 1/23-B, Asaf Ali Rd., New Delhi 110002.
M. J. Patel & Co. Pvt. Ltd., 116, P. D'Mello Rd., Bombay 400009.
Madras Engg. Works, 1, Kika St., Gulalwadi, Bombay 400004.
Madras Metals, 7, Kika St., Gulalwadi, Bombay 400004.
National Casting Co., 103, Foreshore Rd., Howrah 711103.
Raj Iron Foundry, Sultanganj, Agra 282004.
Sakhi Engrs., 99/A, Mittal Chambers, Nariman Point, Bombay 400021.
SHI Engineers, 46, SIDCO Indl. Estate, Coimbatore 641021.
Stewarts & Lloyds of India Ltd., 41, Chowringhee, Calcutta 700071.
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Plastic Resins & Chemicals Ltd., Sahupuram, Arumuganeri 628202 (Tirunelveli Dist.), Tamil Nadu.

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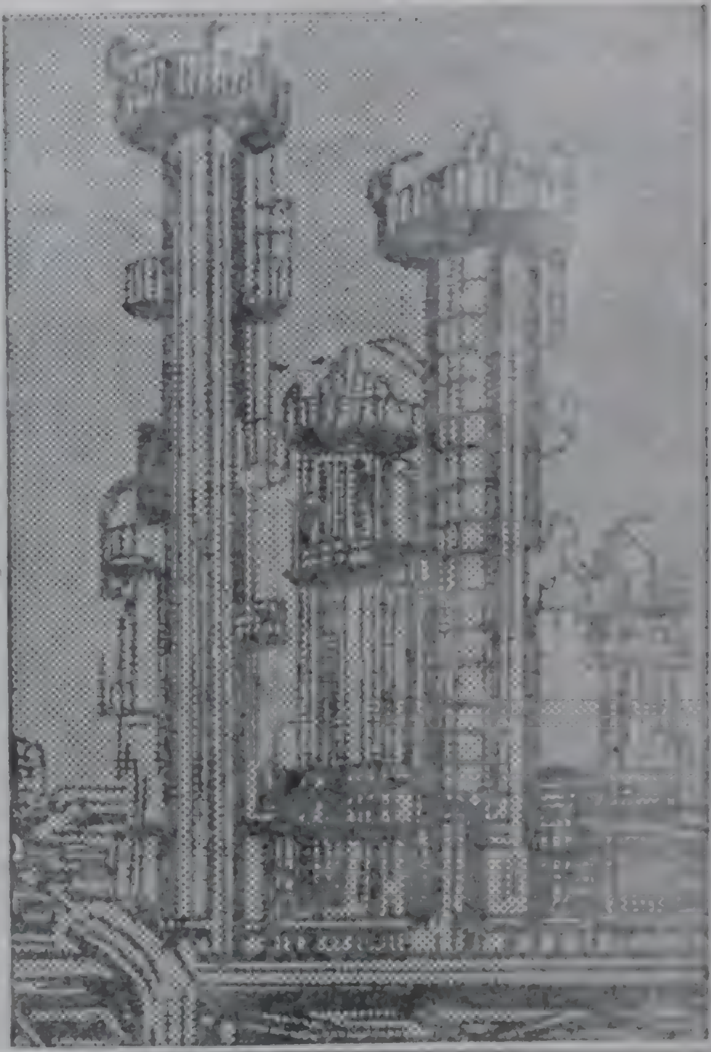
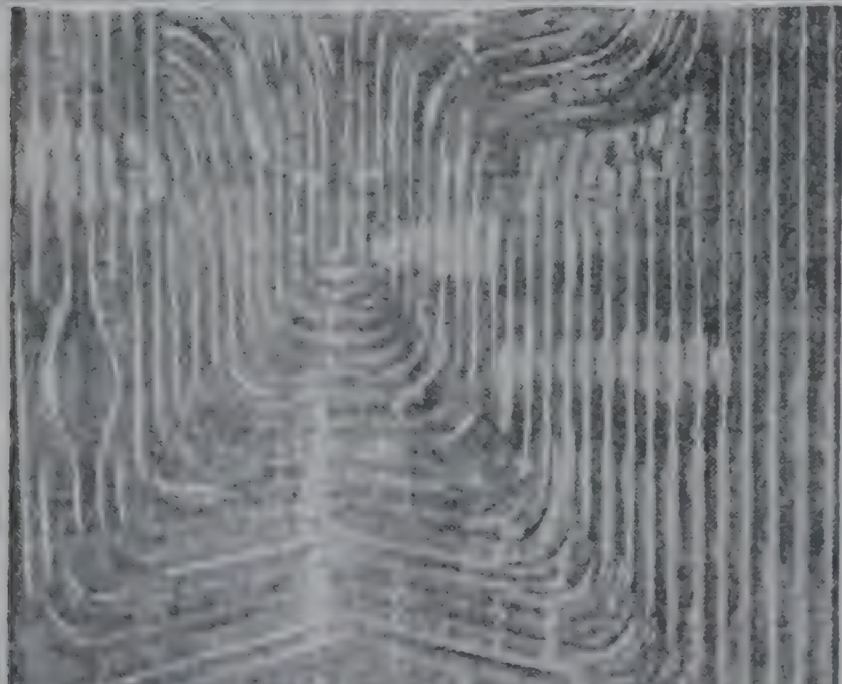
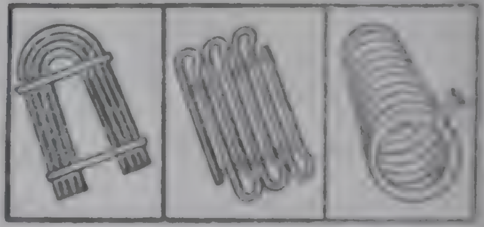




FABRICATOR OF
BOILER
COMPONENTS



tube weld

TUBE WELD ENGG.WORKS PVT.LTD.
118 P.D Mello Road
Near Carnac Bridge, Bombay 400 009
Phone: 322114/15/16/17
Grams: "TUBEWELD"
Telex: TUBES 011-3358

APEX TW/1/75

Maharashtra

Ajit Industries, Ashok Comp., Carter Rd., 6th Lane, Borivli (East), Bombay 400092.
Alka Industries, Padia Comp., Irani Wadi, Hemukalani Rd., Kandivli (West), Bombay 400067.
Amardeep Industries, Gamdevi Rd., Poisar, Kandivli (West), Bombay 400067.
Ambika Celluloid Industries, Simpovli, S. Vivekanand Rd., Borivli (West), Bombay 400092.
Arco Bangle Works, Sonawala Estate, Goregaon (East), Bombay 400063.
Ashok Industries, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.
Bharat Bangle Industries, Hakoba, I. B. Patel Rd., Ind. Estate, Goregaon (East), Bombay 400063.
Bombay Bangle Works, Samson Comp., Goregaon (East), Bombay 400063.
Celluloid Bangle Works, Vijaykar Wadi, S. Vivekanand Rd., Malad (West), Bombay 400064.
Dattaguru Bangle Works, 84, Vijaykar Wadi, S. Vivekanand Rd., Malad (West), Bombay 400064.
Delux Industries, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.
Diamond Industries, Keshar Ind. Estate, Perubaug, Goregaon (East), Bombay 400063.
Dipco Products, Bliss Comp., Nivetia Rd., Malad (East), Bombay 400064.
Ganesh Bangle Works, Churiwadi, Goregaon (East), Bombay 400063.
Garden Products, Vanshree Compound, Marve Rd., Malad (W), Bombay 400064.
Gemini Industries, Churiwadi, Aarey Rd., Goregaon (East), Bombay 400063.
Goregaon Ind. Corp., Indl. Corner, I. B. Patel Rd., Goregaon (East), Bombay 400063.
Indian Celluloid Industry, Churiwadi, Goregaon (East), Bombay 400063.
International Art Industries, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.
J. M. I. Bangle Ind., Bliss Compound, Nivetia Rd., Malad (E), Bombay 400064.
Kamal Products, Lavji Nanji Comp., N. J. Rd., Malad (West), Bombay 400064.
Kiron Products, Savita Estate, Aarey Rd., Goregaon (East), Bombay 400063.
Kirti Bangle Industries, Churiwadi, Goregaon (East), Bombay 400063.
Kundan Plastic Industries, Sainath Bldg., Gala-27, Kotkar Estate, Goregaon (East), Bombay 400063.
Laxmi Bangle Industries, Carter Rd., 6th Lane, Borivli (East), Bombay 400066.
Metro Bangle Works, 73-D, Govt. Ind. Estate, Kandivli (West), Bombay 400067.
New Art Industries, Ram Baug, S. Vivekanand Rd., Malad (West), Bombay 400064.
Nityanand Bangle Works, 104/P, Gauthan Rd., Bhandarwada, Malad (West), Bombay 400064.
Nutan Art Industries, Bliss Comp., Nivetia Rd., Bombay 400064.
Pankaj Plastic Products, 139, Agarwal Ind. Estate, Jogeshwari (West), Bombay 400060.
Paras Industries, Carter Rd., 6th Lane, Borivli (East), Bombay 400066.
Prafulla Industries, 84, Vijaykar Wadi, S. Vivekanand Rd., Malad (West), Bombay 400064.
Raj Bangle Industries, Samson Compound, Goregaon (East), Bombay 400063.
Rocket Art Industries, Vijay Kailas Ind. Estate, Sonawala Estate, Goregaon (East), Bombay 400063.
Sadhana Traders, Carter Rd., 6th Lane, Borivli (East), Bombay 400092.
Sarvoday Bangle Works, Adarsh Comp., Marve Rd., Malad (West), Bombay 400064.
Savani Industries, Plot E, Shed 5, Sonawala Estate, Goregaon (East), Bombay 400063.
Star Products, S. Vivekanand Rd., Borivli (West), Bombay 400092.
Suman Industries, Sampson Comp., Goregaon (East), Bombay 400063.
Teeka Industries, 84, Vijaykarwadi, S. Vivekanand Rd., Malad (West), Bombay 400064.
United Export Corpn., 19, Agarwal Indl. Est., 12, S. V. Rd., Dahisar (E), Bombay 400068.
Universal Bangle Works, Churiwadi, Goregaon (East), Bombay 400063.
Usha Bangles, Churiwadi, Goregaon (East), Bombay 400063.

Rajasthan

Modern Celluloid Bangle Inds., Pall House, Jodhpur 342001.

Uttar Pradesh

Shri Krishna Plastic Industries, Behind Bus Stop, Ferozabad 283203. Agra Dist.

PLASTIC BLOW MOULDING

Bihar

R. B. Plastic & Metal Ind., P.O. Jharia 828111. Dhanbad Dist.

Delhi

B. K. Plastic Pvt. Ltd., A207, Defence Colony, New Delhi 110003.
India Plastics, 15-A, Sabharwal Market, New Delh 110006.
Maidan Brothers, 277, Sadar Bazar, Delhi 110006.

Gujarat

Elite Plastic Co., 12A, Bharatkhand Cotton Mills Comp., Naroda Rd., Ahmedabad 380001.
Hindustan Polythene & Plastic Works, Ind. Area, Yamuna Mill Rd., Vadodara 390004.
Vora Plastics Manufg. Co., Vora Baug, Ghuntu Rd., P.B. 54, Morvi 363641.

Kerala

Modern Plastic Ind., Neerkunnam, Alleppey 688005.

Maharashtra

Arun Plastics, 74A, Govt. Kandivli Ind. Estate, M. Gandhi Rd., Kandivli West, Bombay 400067.
Ashok Plastics, 511, Arun Chambers, Tardeo, Bombay 400034.
Ashok Traders, 129-C, Govt. Indl. Est., Kandivli (W), Bombay 400067.
Blow Plast Pvt. Ltd., Gauthan Rd., Off. Bombay-Agra Rd., Bhandup, Bombay 400078.
Bright Bros. Ltd., 156A, J. Dadajee Rd., Bombay 400034.

Everest Indl. Corpn., 102, Sona Udyog Bhavan, Parsi Panchayat Rd., Andheri (E), Bombay 400069.

Garware Plastics Pvt. Ltd., Western Express Highway, Vile Parle, Bombay 400057.

General Plastics, 8, Tamarind Lane, Bombay 400023.

Indian Plastics Ltd., Poisar Bridge, Ghodbunder Rd., Kandivli, Bombay 400067.

Industrial Tube Container Manufg. Co., C/o Rainbow Products, Ind. Assurance Bldg., Churchgate, Bombay 400020.

Kalpana Plastic Ind., 20/3, Hadapsar Ind. Estate, Pune 411013.

Kosmek Plastic Manufg., Ltd., Old B.P.T. Rd., Mahul, Chembur, Bombay 400074.

Model Containers, C/o H. P. Shah & Company, 689, Govind Chowk, M. J. Market, Bombay 400002.

PVD Plast Mould Ind., 43, Forbes St., Bombay 400023.

Shree Kailash Texplabo Ind. & Agencies Pvt. Ltd., Prabhadevi Ind. Estate, Cadell Rd., Bombay 400025.

Sunlight Plastic Ind., 324, A to Z Ind. Estate, Fergusson Rd., Lower Parel, Bombay 400013.

Vinod Plastic Works, 248, 252, A. Rehman St., Bandukwala's Bldg., Bombay 400003.

Punjab

Baljit Bros., Chowk Lachmansar, Amritsar 143001.

Tamil Nadu

Nirmala Plastic Works, 170/2, S. C. Bose Rd., Madras 600001.

Polyene General Ind., Unit 11A, Ind. Estate, Guindy, Madras 600032.

Uttar Pradesh

Lari Ind., Iqbal Manzil, Near City Station, Lucknow 226001.

West Bengal

Ever Bright Plastic Works, 10/1, Portuguese Church St., Calcutta 700001.

Indar Plastic Works, 56/1, Canning St., Calcutta 700001.

Radheshyam Plastic Ind., 65-A, Nimtollaghat St., Calcutta 700006.

PLASTIC CANE & ROPES

Hyderabad Polythylene Indus., 5/4/383, Mukaramjah Rd., Hyderabad [illegible]

Indar Plastic Works, 56/1, Canning St., Calcutta 700001.

Maharashtra Plastic Industries, [illegible] Nagar, Off Caves Rd., Jogeshwari East, Bombay 400060.

Polymers (I) Pvt. Ltd., 10, Mall Rd., Dum Dum, Calcutta 700028.

Ravish Synthetic Twines & Ropes Pvt. Ltd., B-70, Ind. Estate, Rajajinagar, Bangalore 560010.

PLASTIC COMPRESSION MOULDING

Delhi

Globe Products (India), 24, Friends Colony, G. Trunk Rd., Shahdara, Delhi 110032.

Gujarat

Alembic Chemical Works Co. Ltd., Vadodara 390003.

Hemant Bros., Super Market, Ashram Rd., Ahmedabad [illegible]

Plastic Products Engg. Co., 'Lavanya', Behind Ahmedabad Medical Association Hall, Ahmedabad 380009.

Haryana

Nuchem Plastics Ltd., 54, Ind. Estate, Faridabad 121001.

Karnataka

Associated Trdg. Corpn., 44/4, Sri Jayachamaraj Rd., Bangalore 560002.

Maharashtra

Barakaso Pvt. Ltd., Ishwarbhai Patel Rd., Goreg East, Bombay 400063.

Baroda General Ind., Ram Baug, S. Vivekanand R Malad, Bombay 400064.

Cipra Bakelite Co., Rout Wadi, Moghul Lane, Mah Bombay 400016.

Daylight Plastic Ind., 45, Suryodaya Mills Com Tardeo, Bombay 400034.

Ellora Art Ind., Shreejee Bhuvan, Lohar Chawl, Bomb 400002.

Imperial Ind. Co., Opp. Sitaladevi Temple, L. Jamshe Rd., Mahim, Bombay 400016.

Merchant & Co. Pvt. Ltd., C/o Janata Works Com Pipe Rd. (S.), Lower Parel, Bombay 400013.

Milan Products, 64-D, Govt. Ind. Estate, Kandiv Bombay 400067.

Plastella, 91, S. Vivekanand Rd., Borivli, Bombay

Podar Plastics Pvt. Ltd., Podar Chambers, Parsee Ba St., Bombay 400001.

Polymer Products Co., Saki Vihar Lake Rd., 400072.

Polypick Ind., Bombay Mutual Bldg., Dr. D. N Rd., Bombay 400001.

Polyset Corpn., Plot No. A-44 45, M.I.D.C., Marol In Estate, Mahakali Caves Rd., Bombay 400069.

Presto Ind., 106, Kansara Chawl, Kalbadevi Rd., Bomb 400002.

Prest-O-Lite, Ghodbunder Rd., Opp. Bandra Bus Gar Santa Cruz, Bombay 400054.

Sputnik Ind., 30, Tejpal Rd., Vile Parle East, B 400057.

Walchandnagar Ind. Ltd., Construction House, Estate, Bombay 400038.

Tamil Nadu

Plasticraft Ind., Velachery Rd., Madras 600042.

Praga Ind. Pvt. Ltd., Avanashi Rd., Coimbatore

Uttar Pradesh

Plastics Products Ltd., Kamala Tower, Kanpur

West Bengal

Assam Produce Co. Pvt. Ltd., 4, India Exchange P Calcutta 700001.

Eastern Traders (Agencies), 3, Chittaranjan Ave., Calcu 700013.

Orient Plastic Ind., 12, Portuguese Church St., Calcu 700001.

Universal Moulders, 4, Canal Rd., New Alipore, Calcu 700053.

PLASTIC ELECTRICAL ACCESSORIES

Delhi

Rexco Ind. (India), Expo Plastics, G-35, Gulabi Delhi 110007.

Maharashtra

Automate Engineers, T. K. Ind. Estate, King Bombay 400015.

Merchant & Co. Pvt. Ltd., 162, Tulsi Pipe Rd. S Lower Parel, Bombay 400013.

Standard Batteries Ltd., Vakola, Santa Cruz, 400055.

PLASTIC EXTRUSION

Andhra Pradesh

Hyderabad Polyethylene Ind., 5/4/383, Mukaramjahi Rd., Hyderabad 500001.

Indian Detonators Ltd., Sanatnagar, Hyderabad 500018.

Delhi

Tobu Enterprises Pvt. Ltd., 8/29, Indl. Area, Kirti Nagar, New Delhi 110015.

Gujarat

D. R. Industries, Swaminarayan Godown, Outside Dariapur Gate, Ahmedabad 380001.

Deutron Plastic Ind., Gujarat Laghu Udyog Vikas Mandal, Shamapur Gate, Ahmedabad 380001.

Gujarat Packaging Inds., Plot 165/3, Udyog Nagar, Udhna 394210.

Hindustan Polythene & Plastic Works, Yamuna Mill Rd., Vadodara 390004.

Modern Plastics Corpn., 4/4488, Begampura, Surat 395001.

Monalax Plastics, Sabhir House, Near Hajoori Soda Factory, Salabalgoura, Surat 395002.

Polypack Plastics, 85, G.I.D.C., Indl. Est., Vatva 382445.

Unick Plastics Ind., Plot No. 2/A/2/3, Udhna Ind. Estate, Udhna 394210, Surat Dist.

Karnataka

D. M. Industries, Morzaria Ind. Estate, 4, Banarghatta Rd., Bangalore 560029.

F. Fibre Corpn., A-83, Ind. Estate, Rajajinagar, Bangalore 560010.

Jambo Plastics Pvt. Ltd., M. S. Ramaiah College Comp., Gokul, Bangalore 560054.

Multiplast Ind. (Karnataka) Pvt. Ltd., P.B. 10, Hospet 583201.

Precision Extrusions, 8/B, Daddannadhundi Indl. Area, P.O. Mahdevpura, Bangalore 560048.

T. T. Pvt. Ltd., Duravaninagar, Bangalore 560016.

Kerala

Kumar Ind., Sree Devi, Kottumukku, Quilon 691001.

Phoenix Plastics, Kottayam 686001.

Maharashtra

Airoplast Private Ltd., C/40, 'Y' Rd., Wagle Ind. Estate Thane 400604.

Ashok Plastics Ind., Shed No. 12, Ind. Estate, Dhule 424001.

Atom Plast, "Bhavna", 422, V. Savarkar Rd., Bombay 400025.

Bombay Synthetic Corpn., Govt. Ind. Estate, Plot No. 81, Kandivli West, Bombay 400067.

Bright Bros. Ltd., 156A, J. Dadajee Rd., Bombay 400034.

Chemo Plastics, 14, 'Sailesh', 59/75, Forjett St., Bombay 400026.

Dhiren Plastic Inds., A-101, Ghatkopar Indl. Estate, Bombay 400086.

Dhoot Chemo Plast Pvt. Ltd., Kranti Chowk, Aurangabad 431001.

Dikay Inds., 32, Sidhpur Indl. Est., Goregaon (W), Bombay 400062.

Eagle Enterprises Pvt. Ltd., 141, S. Devjee St., Bombay 400003.

Everest Enterprises, 226, Kalbadevi Rd., Bombay 400002.

F. Block Agencies Pvt. Ltd., Shale Bldg., Bank St., Bombay 400023.

Ganesh Ind., 32/34, 1st Marine St., Bombay 400002.

Glosso Pack Ind., Laxmi Woollen Mills Comp., B. Jagtap Rd., Bombay 400011.

Great India Plastics, I.B. Patel's Estate, I. Patel Rd., Goregaon East, Bombay 400062.

Jay-Kee Plastics, C/o Kakad Ind. Estate, L. Jamshedji Rd., Mahim, Bombay 400016.

Kaveri Plastichem Pvt. Ltd., Bullion Exchange Bldg., Jhaveri Bazar, Bombay 400002.

Maharashtra Plastic Ind., 312, Kalbadevi Rd., Bombay 400002.

Modern Waterproof Papers Manufg. Co., 109, Masjid Bunder Rd., Bombay 400003.

Nova Plast Ind. Pvt. Ltd., Shree Laxmi Silk Mills Premises, M. C. Javla Rd., Bombay 400028.

Nylo Plast Ind. Pvt. Ltd., Nyloc House, 254-D2, Dr. A. Besant Rd., Prabhadevi, Bombay 400025.

Plastic Extrusion Products, M.I.D.C. Ind. Estate, Plot No. 16/17, II Cross Rd., J. B. Nagar, Bombay 400059.

Plastic Extruders Pvt. Ltd., National Insurance Bldg., Dr. D. Naoroji Rd., Bombay 400001.

Plasticable Pvt. Ltd., Lentin Chambers, 36, Dalal St., Bombay 400023.

Plastoflex Ind., 46, Nagdevi St., Bombay 400003.

Plasto-Pack Ind., 5-B, Suryodaya Mills Comp., Tardeo, Bombay 400034.

Polymers & Resins Corpn., 46, V. Nariman Rd., Opp. Akbarally's, Bombay 400001.

Ramdas Plastic Manufg. Co. Pvt. Ltd., 111/128, Sadhu Vaswani Nagar, Ganeshkhind Rd., Pune 411007.

Shree Mahalaxmi Trading Corpn., 198, Kalbadevi Rd., Bombay 400002.

Sylvex Cable Company Pvt. Ltd., Behind India Cork Mills, Saki-Vihar Rd., Bombay 400070.

Thermo-Plastic Ind., 78, Kalachowki Rd., Lalbaug, Bombay 400033.

Trinity Plastics, 238, Nagdevi St., Bombay 400003.

Tamil Nadu

Devon Plastics, Dhun Bldg., 175/1, Mount Rd., Madras 600002.

Paper, Film & Foil Converters, P.B. 6, Sivakasi 623501. Ramnad Dist.

Uttar Pradesh

Garg Plastics, 47/86, Hatia, Kanpur 208001.

West Bengal

Extrusion, P-38, India Exchange Place, Calcutta 700001.

India Burlap & Laminating Works, 10, Clive Row, Calcutta 700001.

Neptune Plastic & Metal Inds., 16, India Exchange Place, Calcutta 700001.

Polyfabs Ltd., 2, Pretoria St., Calcutta 700016.

Transpackers, Flat No. 401, 'Niharika', 17/1C, Alipore Rd., Calcutta 700027.

PLASTIC FABRICATION

Delhi

Fancy Plastic Moulders, Mayapuri Indl. Area, Phase II, New Delhi 110027.

Maharashtra

Airoplast Pvt. Ltd., C-40, 'Y' Rd., Wagle Indl. Est., Thane 400601.

Amar Plastics, 81, Clive Rd., Bombay 400009.

BRIGHT BROTHERS LIMITED

156-A, J. Dadajee Road, Bombay 400 034.

Manufacturers of :

Domestic Plasticware & Industrial Components

Specialising in the manufacture of :

1. **Brite Engel (Material Handling Products) Seamless polythene tanks, carboys, containers etc.**
2. **Brite Allplas Hollow plastic spheres for use as blanket covers for evaporation and heat control.**
3. **Microbrite Pulverised Polythene Powders for use of plating, painting or general metal finishing problems.**

Phones : 375342 (4 lines), 391159.
Telex : BRIBOS 011-5066.
Grams : " BRIBOS " Byculla, Bombay.

Chairman & Managing Director :
T. W. Bhojwani.

Artec Products, 2/2, Dwarkanath Bhuvan, Katrak Rd., Wadala, Bombay 400031.

Bombay Plastic Corpn., Elphinstone Bldg., 10, Churchgate St., Bombay 400001.

Bright Bros. Ltd., 156-A, J. Dadajee Rd., Bombay 400004.

Indian Plastics Ltd., Poisar Bridge, Kandivli, Bombay 400067.

Jagdhir Desai & Co., 13, Gunbow St., Bombay 400001.

Jyoti Plastic Works, Bombay Talkies Comp., Hemansu Rd., Malad West, Bombay 400064.

K. K. Nag Pvt. Ltd., 23/5-A, Bund Garden Rd., Pune 411001.

Multicrafters, 31, M. G. Rd., Ghatkopar, Bombay 400080.

Oriental Manufg. Co., 94, 3rd Bhoiwada, Bombay 400002.

Podar Plastics Pvt. Ltd., Podar Chambers, Parsee Bazar St., Bombay 400001.

Premier Leather Krafts, 35-37, Hamam St., Bombay 400023.

Rainbow Products, Indl. Assoc. Bldg., Churchgate, Bombay 400020.

Universal Luggage Manufg. Co. Pvt. Ltd., Bldg. B, Shah Indl. Est., Saki Vihar Rd., Bombay 400072.

Venus Prints, Pitamberwadi, Mahim, Bombay 400016.

Tamil Nadu

Polvene Film Inds. Pvt. Ltd., B-17, Indl. Est., Ambattur, Madras 600058.

PLASTIC FOAM

Andhra Pradesh

U. Foam Pvt. Ltd., 8-15 16, Ind. Estate, Sanatnagar, Hyderabad 500018.

Delhi

Bharat Foam Udyog Pvt. Ltd., 49, Rajpur Rd., Del 110006.

J. J. Foam Pvt. Ltd., 224, Okhla Indl. Estate, New Delh 110055.

Gujarat

Nu-Foam Inds., G.I.D.C. Estate, Shed A/2, Nos. 3 & Vatva 382440. (Ahmedabad Dist.).

Karnataka

K. B. Foam Pvt. Ltd., 12, Bore Bank Rd., Bangalor 560046.

Maharashtra

Artbangle Pvt. Ltd., 204, National Insurance Bldg. Dr. D. Naoroji Rd., Bombay 400001.

BASF Ind. Ltd., Tiecicon House, Dr. E. Moses Rd. Bombay 400011.

PLASTIC GOODS

Andhra Pradesh

Admark Plastics Pvt. Ltd., P2 & P3, Ind. Area, Nacharam Hyderabad 500039.

Padma Plastic Inds., Kareemabad Rd., Warangal 50600

Delhi

Pearl Polymers Pvt. Ltd., 27-A, Najafgarh Rd., New Delhi 110015.

Plastic House, 5255, Ballimaran St., Delhi 110006.

S. Mohd. Suabheen & Co., 824, Ballimaran St., Delh 110006.

Gujarat

ABS Plastics Ltd., 6, B. Jadav Chambers, Ashram Rd. Ahmedabad 380009.

Anjna Ind. Corpn., Bharat Bobbins Premises, Opp. Aj Mills Ltd., Rakhial Rd., Ahmedabad 380023.

Bharat Plastic & Bakelite Ind. Ltd., Krishnaga Housing Rd., Saijpur Bogha, Ahmedabad 380002.

Parag Plastics Ind. Pvt. Ltd., 80, Makarpura Ind Estate, P.B. No. 199, Vadodara 390009.

Maharashtra

Bharat Foam Industrial Pvt. Ltd., 9, Kitab Mahal, Dr. D N. Rd., Bombay 400001.

Billion Plastics Pvt. Ltd., 101, Himalaya House, Palton Rd., Bombay 400001.

Brahma Bharati Udyog, Green House, Green St., Bombay 400023.

Bright Bros. Ltd., 156-A, J. Dadajee Rd., Bombay 400034.

General Plastics, Calicut House, 8, Tamarind St., Bombay 400023.

Narichania Consultancy & Agency Pvt. Ltd., 22, S P. M. Rd., Bombay 400001.

Prince Plastics, 312, Churchgate Chambers, 5, New Marine Lines, Bombay 400020.

Vinis Products, 43 44, Royal Ind. Estate, 5-B, Naigaum Cross Rd., Wadala, Bombay 400031.

Orissa

Kartik Enterprises Pvt. Ltd., B-20, Indl. Est., Cuttack 753003.

Tamil Nadu

Deluxe Plastics Products, 6B, N. M. Mudaliar Rd., Madras 600029.

Electro Plastic Combination, 65, N. M. Mudaliar Rd., Madras 600029.

PRINCE PLASTICS

312, Churchgate Chambers, 5, New Marine Lines, Churchgate, Bombay 400 020.

Manufacturers and Exporters of:

Plastic Moulded Household and Industrial Articles

Such as

BUCKETS, BASINS, TUBS, JUGS, SHOPPING BASKETS, JERRY CANS, MUGS, SCHOOL BAGS, MASALA BOXES, WASTE PAPER BASKETS, PLATES, LETTER TRAYS, DUST PANS, WATER BOTTLES, LEMON SQUEEZER, DRUMS, SOAP CASES AND MANY OTHER USEFUL ARTICLES.

EXPORT INQUIRIES SOLICITED

Telephones :
Office: 295333 & 255672
Factory: 584519 & 583887
Resi.: 472084 & 442537

Grams: " HOUSEWARE "
Bombay 400 059.

Plastic Glass Enterprises, 15, Tatabad, 9th St., P.O. Tatabad, Coimbatore 611012.

Praga Inds. Ltd., Peelamedu, Coimbatore 641004.

Tiptop Plastic Inds. Pvt. Ltd., 25, Kasi Chetty St., Madras 600001.

West Bengal

Climax Plastic Udyog, 11, Pollock St., Calcutta 700001.

Delton Steel & Metal Ind., P-2, Dalimtola Lane, Calcutta 700006.

Emco Gen. Plastic Ind., P-35, C.I.T. Rd., Calcutta 700014.

High Volt Equipment Pvt. Ltd., Premier House, P-39, Mission Row Extn., Calcutta 700013.

Indar Plastic Works, 56/1, Canning St., Calcutta 700001.

Peerless Plastics Ind. Pvt. Ltd., 4, Upper Chitpur Rd., Calcutta 700007.

Plastics Enterprises, 38, Strand Rd., Calcutta 700001.

Polymers (India) Pvt. Ltd., 10, Mall Rd., Dum Dum, Calcutta 700028.

Ratan Plastics Pvt. Ltd., 43/1, Strand Rd., Calcutta 700007.

Synthetic Moulders Ltd., 16, N. Subhas Rd., Calcutta 700001.

Techno Rubber & Plastic Works, 14, Chandni Chowk St., Calcutta 700001.

PLASTIC HOSES

Billion Plastics Pvt. Ltd., 101, Himalaya House, Palton Rd., Bombay 400001.

PLASTIC INJECTION MOULDINGS

Andhra Pradesh

Plastic Engg. Components Pvt. Ltd., D/8-9, Govt. Ind. Estate, Moula Ali, Hyderabad 500040.

Delhi

Aarcee Plastic & Metal Ind. Pvt. Ltd., D-8, Nizamuddin (W), New Delhi 110013.

Bright Distributors, Swadeshi Market, Sadar Bazar, Delhi 110006.

Delton Cable Ind. Pvt. Ltd., Delton House, 24, Daryaganj, New Delhi 110002.

Fancy Plastic Moulders, 104 A, Phase II, Mayapuri, Delhi 110027.

Rapid Engg. Co. Pvt. Ltd., 112, New Okhla Indl. Complex, Phase I, N. Delhi 110020.

Sindhu Plastic Containers, A-61/1, G. T. Karnal Rd., Indl. Area, Delhi 110033.

Goa

Goa Plast Pvt. Ltd., Vello Bldg., Panaji 403001.

Gujarat

Hindustan Polythene & Plastic Works, Indl. Area, Yamuna Mill Rd., Vadodara 390004.

Kaj Ind., Plastic House, Udyognagar, Udhna 394210.

Ranco Plastics, 'Shrinath Prasad', Takhteswar Plots, Bhavnagar 364001.

Sinter Plast Containers, Kalol 382721.

Jammu & Kashmir

Kashmir Plastic Inds., Polo View, Srinagar 190001.

Karnataka

Karnatak Bangle Works, 4/3, Platform Rd., Seshadripuram, Bangalore 560020.

Kaveri Plastic Pvt. Ltd., Morzaria Ind. Estate, Unit F, Shed No. 2, 4, Bannerghatta Rd., Bangalore 560029.

Plasticana, 63, 2nd Stage, Indl. Suburb, Tumkur Rd., Bangalore 500022.

Precision Engineers, Duravaninagar, Bangalore 560016.

T. T. Pvt. Ltd., Duravaninagar, Bangalore 560016.

Kerala

Common Facility Service Centre, Ind. Estate, Changanacherry 686104.

Madhya Pradesh

Acrocast, F9, Ind. Estate, Polo Ground, Indore 452003.

Ahuja Ind. Co., G. E. Rd., Opp. D. K. Hospital, Raipur 492001.

Jai Plastic Ind., 4-A, Ind. Estate, Raipur 492001.

Maharashtra

Acme Plastics Ind., Chandivalli Farm, Chandivalli Rd., Bombay 400072.

Amartara Plastics Pvt. Ltd., Saki Vihar Rd., Bombay 400072.

Anand Plastics, 244, Bellasis Rd., Opp. Alexandra Cinema, Bombay 400008.

Anant Shridhar, 7, Lokamanya Nagar, Mahim, Bombay 400016.

Arora Plastics Pvt. Ltd., Deonar, Govandi Station Rd., Bombay 400088.

Ashok Plastics, 67, Ideal Ind. Estate, Mathuradas Mills Comp., Lower Parel, Bombay 400013.

Bata Shoe Co., Pvt. Ltd., Sandak Div., P.B. 84, Thane 400601.

Bien Plastics, Paragon Textile Mills Comp., Globe Mills Passage, Worli, Bombay 400018.

Central Plastics, No. 4, Ghodbunder Rd., Indian Crucible Comp., Malad, Bombay 400064.

Comet Corpn., 446, S. V. Patel Rd., Seksaria Bldg., Bombay 400004.

Dynamic Plastics Pvt. Ltd., 91, Tejpal Rd., V. Parle (E), Bombay 400057.

Elegant Inds. Pvt. Ltd., Udyog Bhavan, 250-D, Worli, Bombay 400025.

Endo Plastic Pvt. Ltd., A-21, Nand Dham Indl. Est., Andheri (E), Bombay 400059.

Everest Plastic Ind., Bajaj Bhavan, Nariman Pt., Bombay 400021.

Exen Ind., Parekh Nagar, Ghodbunder Rd., Kandivli (B.S.D.), Bombay 400067.

Flexcord Corpn., 266, Dr. A. Besant Rd., M. U. Garage Bldg., Prabhadevi, Bombay 400025.

Formacators, 20, Evergreen Ind. Estate, Dr. E. Moses Rd., 2nd Fl., Mahalaxmi, Bombay 400011.

Gemini Plastic Ind., 3-A, Krishna Udyog Bhuvan, Dhuruwadi, Near Bengal Chemicals, Bombay 400025.

Gujarat Ind. Pvt. Ltd., Vishveshwarnagar, Goregaon (E), Bombay 400063.

Harrison & Co., 23/25, Paradise Lane, L. Jamshedji Rd., Mahim, Bombay 400016.

Indian Plastics Ltd., Poisar Bridge, Ghodbunder Rd., Kandivli, Bombay 400067.

J. L. Morrison Son & Jones (I) Ltd., Poisar, Kandivli, Bombay 400067.

Jaisingh Plastics Ind., 3rd Bhoiwada, Bhuleshwar, Bombay 400002.

Jamsar Engg. Works, Laxmi Woollen Mills Estate, Haines Rd., Mahalaxmi, Bombay 400011.

Jaybee Plastic Works, Ebrahim Mansion, 366-68, Kalbadevi Rd., Bombay 400002.

Jayesh Plastics, 112 A-B, Govt. Ind. Estate, Kand Bombay 400067.

Jolly Plastics, Sona Indl. Est., Parsi Panchayat Andheri (E), Bombay 400069.

Jyoti Plastic & Allied Ind., Plot No. 49, A/B, Govt. Estate, Bombay 400067.

K. K. Nag Pvt. Ltd., 2/362, Bund Garden Rd., P 411001.

Kings Plastics, Block No. 7, Devkaran Mansion, Vithaldas Rd., Bombay 400002.

Krishna Plastics, 139, Nagindas Master Rd., Bom 400001.

M. K. Plastics Ind., 112, Kakad Ind. Estate, Bom 400016.

Maniar Plastics Ind., 63, 3rd Bhoiwada, Bombay 400

Meenul Metallizing Pvt. Ltd., 1076, Haines Rd., W Bombay 400018.

Mhatre Pen & Plastic Ind. Pvt. Ltd., Tulsi Pipe Dadar, Bombay 400028.

Modella Plastics, 167, C.S.T. Rd., Kalina, Bombay 400

Motco Plastics, 13-B, Kurla Ind. Estate, Agra Rd., Gh kopar, Bombay 400086.

National Plastic Ind., 40, Mirchi Galli, Opp. Jam Masjid, Bombay 400002.

Overseas Plastics Moulders, Sadhana Ind. Estate, Oshiv Bridge, Jogeshwari, Bombay 400060.

P. S. Plastic Ind., M.I.D.C. Indl. Est., Plot No. A Andheri, Bombay 400093.

Phiroze Sethna Ind., Royal Insurance Bldg., J. Tata Road, Bombay 400020.

Pla-Age Inds., 307/308, Sharda Chambers, 15, New Ma Lines, Bombay 400020.

Plastica, 94, Vithalwadi, Kalbadevi Rd., Bombay

Plastics Converters, National House, 6, Tulloch Bombay 400039.

Plastipeel Chemicals & Plastic Pvt. Ltd., Krupa Est., Saki-Vihar Rd., Bombay 400072.

Plastocrafts Inds. Pvt. Ltd., Apte Est., 1076, Dr. E. M Rd., Worli Naka, Bombay 400018.

Prem Plastics, 301, Bharat Ind. Estate, T. Jivraj Sewree, Bombay 400015.

Premier Ind. Works, 42, Taikalwadi Lane, Off Jamshedji Rd., Mahim, Bombay 400016.

Rainbow Products, Ind. Assurance Bldg., Church Bombay 400020.

Rajpal Plastics Ind., 303, Neelkanth, 98, Marine Bombay 400002.

Simac Group (I) Pvt. Ltd., Plot No. B-72, Rd. No. W.I. Estate, Thane 400604.

Sona Plastics Pvt. Ltd., 109, S. A. Brelvi Rd., Podar C bers, Bombay 400001.

Standard Plastics Co., Udyog Mandir, Kurla Andheri Bombay 400072.

Supreme Inds., 17/18, Shah Ind. Estate, Veera Desai Andheri West, Bombay 400058.

Trinity Plastics, 238, Nagdevi St., Bombay 400003.

United Enterprises, 340/341, A to Z Ind. Estate, Rd., Bombay 400013.

V. K. Engg. & Plastics Ind., Western India House, P. Mehta Rd., Bombay 400001.

Vinal Ind., 23, Sidhpura Ind. Estate, S. V Rd., Goregaon, Bombay 400062.

Orissa

Orissa Plastics, P. O. Balasore 756001.

Tamil Nadu

Bhupendra Plastic Ind., 20, Singara Garden Third Rd., Washermanpet, Madras, 600021.

Govel Plastics Pvt. Ltd., 5/9, Veerabhadraier St., Nungambakkam, Madras 600034.

Indian Polythene Ind., 17, Ramanan Rd., Madras 600001.

National Products, 28, B. P. Mudali St., Mount Rd., Madras 600002.

Needle Ind. India Ltd., Ketti. Nilgiris 643215.

Pandiyan Plastic Inds., 33, West Avani Moola St., Madurai 625001.

Plasticraft Inds., 45, Velacherry Main Rd., Madras 600042.

Sree Ambika Inds., 49/A, Mettupalayam Rd., Coimbatore 641030.

U.M.S. Radio Factory, Avanashi Rd., Coimbatore 641018.

Uttar Pradesh

Bihani Ind., 30-B, Indl. Colony, Naini, Allahabad 211008.

West Bengal

Hind Plastic Works Pvt. Ltd., 16, Pageyputty St., Calcutta 700001.

Mahabir Plastic Ind., 6, Canal Rd., New Alipore, Calcutta 700033.

Pioneer Plastic Works Pvt. Ltd., 9, Ezra St., Calcutta 700001.

Plastic Mouldings & Allied Ind., 135, Park St., Calcutta 700017.

Pradip Plastic Moulders, 12-B, Rabindra Sarani, North Block, Calcutta 700001.

Synthetic Moulders Ltd., 43, N. Subhas Rd., Calcutta 700001.

Universal Moulders, 4, Canal Rd., New Alipore, Calcutta 700053.

Western Plastics Co., 9, Gurusaday Rd., Calcutta 700019.

PLASTIC LAMINATION

Andhra Pradesh

Bakelite Hylam Ltd., Sanatnagar, Hyderabad 500018.

Gujarat

Duck Lemiplast, C/B, Plot No. 463, G.I.D.C. Makarpura Ind. Est., Vadodara 390009.

Melamine & Fibre Boards Ltd., Dr. Ambedkar Rd., Kalol 382721.

Madhya Pradesh

Lamina Ind. Pvt. Ltd., 21, Ind. Estate, Polo Ground, Indore 452001.

Maharashtra

ABC Synthetics Pvt. Ltd., 324, Arun Chambers, Tardeo Rd., Bombay 400034.

Caprihans (I.) Pvt. Ltd., Block 'D', Shivsagar Estate, Dr. A. Besant Rd., Bombay 400018.

Formica India Ltd., P.B. 64, Pune 411001.

Industrial Fabrics Pvt. Ltd., 95, A. Rehman St., Bombay 400003.

International Packaging, 250-B, Worli Rd., K. D. Compound, Bombay 400025.

Uttar Pradesh

Indian Coating & Laminating Corpn., 31, Factory Area, Kanpur 208012.

West Bengal

India Burlap & Laminating Works, 10, Clive Rd., Calcutta 700001.

PLASTIC LEATHER CLOTH

Delhi

Neo Poly Pack Pvt. Ltd., E-2, Greater Kailash, New Delhi 110048.

Karnataka

Varma Industrials Ltd., 5th Mile, Domlur Rd., Bangalore 560017.

Maharashtra

Asian Leather Cloth Manufg. Co., Manohar Indl. Est., Malad, Bombay 400064.

Bhor Inds. Ltd., 10, Bombay Samachar Marg, Bombay 400023.

Billion Plastics Pvt. Ltd., 101, Himalaya House, Palton Rd., Bombay 400001.

Caprihans (India) Pvt. Ltd., Block-D, Shivsagar Estate, Dr. A. Besant Rd., Worli, Bombay 400018.

Dharampur Leather Cloth Co. Pvt. Ltd., 10, Chowpatty Sea Face, Opp. Tilak Statue, Bombay 400007.

Ellora Ind., 15, Tulsi Niwas, D. Rd., Churchgate, Bombay 400020.

Elphinstone Spg. & Wvg. Mills Co. Ltd., Kamani Chambers, Bombay 400038.

Jasmine Mills Pvt. Ltd., Dharavi, Bombay 400017.

Jyoti Leather Cloth Inds. Pvt. Ltd., Udyognagar, S. Vivekanand Rd., Goregaon West, Bombay 400062.

Mamaji Ind. Corpn., Atlas Mills Compd., Reay Rd., Bombay 400010.

National Leather Cloth Manufg. Co., Akuli Rd., Kandivli (E), Bombay 400067.

Polytex Ind., 5, Kurla Ind. Estate, L. B. S. Mrg., Ghatkopar, Bombay 400086.

Radhakrishna Ramnarain Pvt., Ltd., State Bank Bldg., Bank St., Bombay 400023.

West Bengal

East India Rubber Works Pvt. Ltd., 161, Chittaranjan Ave., Calcutta 700007.

PLASTIC MACHINERY

Alfred Herbert India Ltd., 13/3, Strand Rd., Calcutta 700001.

Boolani Engg. Corpn., Prabhadevi Ind. Estate, 402, V. Savarkar Marg, Bombay 400025.

Brimco Plastic Machinery Pvt. Ltd., 55, Govt. Ind. Estate, Kandivli West, Bombay 400067.

Engel India Machines & Tools Ltd., 1, Taratala Rd., Calcutta 700053.

Gee Kay Plastics Pvt. Ltd., 21/1, Mahalaxmi Indl. Est., Gandhi Nagar, Lower Parel (W), Bombay 400013.

Goyal Electronics Ind., 319, Prasad Chambers, Opera House, Bombay 400004.

Hindustan Machine Tools Ltd., 36, Cunningham Rd., Bangalore 560052.

Indian Hydraulic Ind., 70, Shivaji Marg, New Delhi 110015.

Jashvant C. Shah & Co., Bharati Nivas, Besant Rd., Santa Cruz West, Bombay 400054.

Juneja Engineering Works, A-36, M.I.D.C. Ind. Area, St. No. 2, Andheri (East), Bombay 400093.

Kolsite Ind., 31, Shah Ind. Estate, Bombay 400058.

Monga Electronics Pvt. Ltd., Arun Bazar, S. V. Rd., Malad West, Bombay 400064.

Novel Engrs. Pvt. Ltd., Sambava Chambers, Sir P. Mehta Rd., Bombay 400001.

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2. Room No. 14, National Chambers, Ashram Road, Ahmedabad 380 009.
   Phone : 79674.
3. 5-9-7/3-6, Saifabad, Opp. Kamat Hotel, Hyderabad 500 004.
   Phone : 35655.
4. Mr. M. G. C. Nair (Agent for Kerala), XXXI/135-6. T. D. Road, Ernakulam, Cochin 600011. Phone : 34325.
5. Mr. L. B. Michael, C/o Khandelwal & Co., 11th Floor. 23A, Netaji Subhas Road, Calcutta 700 001.
6. 212A, Ansal Bhavan, 16, Curzon Road, New Delhi 110 001.
   Phone : 386283.

Polycoat Inds., 316, Linghi Chetty St., Madras 600001.

R. H. Windsor (India) Ltd., E-6, Wagle Ind. Estate, Thane 400604.

Sandhu Mechanical Engg. Works, 32, Indl. Area 'A', Ludhiana 141001.

S.L.M. Maneklal Ind. Ltd., Reid Rd., Ahmedabad 380002.

Solar Machines Pvt. Ltd., 22-D, S. A. Brelvi Rd., Bombay 400001.

Spritz Automation (India) Pvt. Ltd., 140, A. T. Mukherjee Rd., Calcutta 700025.

Sun Plastic Moulds & Die Works, Shantinagar Co-op. Indl. Est., Vakola, Santa Cruz, Bombay 400055.

Universal Mechanical Works Pvt. Ltd., Off Fergusson Rd., Opp. B.D.D. Chawl No. 112, Bombay 400013.

PLASTIC MOULDS

Gujarat

Bakubhai Ambalal Pvt. Ltd., Bank of India Bldg., Bhadra, Ahmedabad 380001.

Hinet Brothers, Ind. Estate Corner, Bapunagar, Ahmedabad 380021.

Maharashtra

Accurate Moulds & Dies, United Industrial House, Shanti Nagar, Vakola, Bombay 400055.

Boolani Engg. Corpn., Prabhadevi Ind. Estate, 402, V. Savarkar Rd., Bombay 400025.

Kalimata Plastic Ind., 205, Wadala Udyog Bhuvan, Naigaum Cross Rd., Wadala, Bombay 400031.

Kolsite Ind., Meher Tiles Comp., 31, Shah Ind. Estate, Bombay 400058.

Niranjan Plastics, 19/7, Botawala Bldg., S.D.T. Bombay 400016.

Plastic Engg. Corpn., 14-A, Sainath Ind. Estate No Off Aarey Rd., Goregaon E., Bombay 400063.

R. H. Windsor (Ind.) Ltd., E6, Wagle Ind. Estate, Th 400604.

Sheth & Sheth Ind., Janmabhoomi Chambers, St., Bombay 400001.

Solar Machines Pvt. Ltd., 22-D, S. A. Brelvi Rd., Bom 400001.

West Bengal

Engle India Machines & Tools Ltd., 1, Taratala Calcutta 700053.

PLASTIC PRESENTATION NOVELTIES

Delhi

Chanson Plastic Manufg. Co., I/104, Panch Sheel Encla New Delhi 110017.

Gujarat

Top-O-Plast, 292, G.I.D.C. Est., Makarpura, Vadod 390005.

Karnataka

Paxal Corpn., No. 13, Sri Krishnarajendra Rd., F Bangalore 560002.

Tip-top Plastic Ind., 124, Kilari Rd., Balepet, Bangal 560053.

Maharashtra

Bharat Pen & Plastic Ind., Jagruti Indl. Est., Mo Lane 1, Bombay 400016.

Bright Brothers Ltd., 156-A, J. Dadajee Rd., Bom 400034.

Hemu Plastics, Unit No. 31, Sona Udyog Estate, P Panchayat Rd., Andheri East, Bombay 400069.

Hiroo Mfg. Co., 93, Bhajipala Lane, Bombay 4000

S. L. Trading Co., 236A, Maulana Azad Rd., Bom 400008.

West Bengal

Industrial Trading Agency, 27-B, Chittaranjan A Calcutta 700013.

Orissa Plastics, 40, Strand Rd., Calcutta 700001.

PLASTIC RAW MATERIAL SUPPLIERS

(Moulding Powder, Sheets, Rods, Tubes & Chemicals).

Gujarat

Cibatul Ltd., Atul 396020. Valsad Dist.

Suhrid Geigy Ltd., P.B. 48, Wadi Wadi, Vadodara

Synthetics & Polymer Ind., S-2, Bapunagar, Ind. Esta Ahmedabad 380023.

Haryana

Acropolymers Pvt. Ltd., Khandsa Rd., Gurgaon

Crystic Resins India Pvt. Ltd., 54, Ind. Area, Faridab 121001.

Karnataka

Mysore Polymers, Shed No. E/16, Ind. Estate, nagaram 571511. Bangalore Dist.

Maharashtra

Allied Traders (Ind.), 169, Masjid Bunder Rd., 400003.

Ambica Impex Agencies, Parvati Nivas, Daulat Rd. No. 7, Borivli, Bombay 400092.

Amritlal & Co. Pvt. Ltd., Rang Udyan, Sitladevi Temple Rd., Mahim, Bombay 400016.

Bakelite Hylam Ltd., Tiecicon House, 18, Dr. E. Moses Rd., Bombay 400011.

Bayer (I.) Ltd., Express Towers, Nariman Point, Bombay 400021.

Chowgule & Co. Hind Pvt. Ltd., India House, Fort St., Bombay 400001.

Ciba of India Ltd., Royal Insurance Bldg., 14, J. Tata Rd., Bombay 400020.

Dr. Beck & Co. (Ind.) Ltd., Bombay-Poona Rd., Pimpri, Pune 411018.

Everbright Industries, 82, Bapu Khote St., Bombay 400003.

Fino Plast Sales Corpn., 21, Mani Mahal, Mathew Rd., Bombay 400004.

General Pigment & Chemical Products Pvt. Ltd., Vihar Lake Rd., Saki Naka, Bombay 400072.

H. S. Sobha Singh & Sons, 16/18, Manu Mansion, Old Customs House Yard, Bombay 400001.

Harshadray Pvt. Ltd., Jiji House, Raveline St., Bombay 400001.

Herdillia Chemicals Ltd., Air India Bldg., Nariman Point, Bombay 400021.

Hoechst Dyes & Chemicals Ltd., Hoechst House, Backbay Reclamation, Bombay 400021.

India Carbon Ltd., Shivsagar Estate, Dr. A. Besant Rd., Worli, Bombay 400018.

Indian Plastics & Chemicals Pvt. Ltd., 9, Wallace St., Bombay 400001.

Indofil Chemicals Ltd., Nirlon House, Dr. A. Besant Rd., Worli, Bombay 400025.

Mettur Beardsel Ltd., 15/16, Sir P. Mehta Rd., Bombay 400001.

Mitter & Co., Mapla Bldgs. 187-A, A. Rehman St., Bombay 400003.

Monsanto Chemicals of India Pvt. Ltd., Wakefield House, Sprott Rd., Ballard Estate, Bombay 400038.

National Organic Chemical Ind. Ltd., Mafatlal Centre, Nariman Point, Bombay 400021.

Plastichemicals Co., Mahalakshmi Chambers, B. Desai Rd., Bombay 400026.

Plastipeel Chemicals Corpn., Kripalani Estate, Saki Vihar Rd., Bombay 400072.

Polychem Ltd., 7, J. Tata Rd., Churchgate Recl., Bombay 400020.

Polyolefins Ind. Ltd., Mafatlal Centre, Nariman Point, Bombay 400021.

Sanghavi Brothers, Rahmat Bldg., 52, A. Rehman St., Bombay 400003.

T. T. Krishnamachari & Co., Vulcan Insurance Bldg., 202-A, V. Nariman Rd., Bombay 400020.

Union Carbide India Ltd., Ind. Products Division, 15, Mathew Rd., Bombay 400004.

West Bengal

Allied Resins & Chemicals Ltd., 13, Camac St., Calcutta 700017.

East Anglia Plastics (India) Ltd., 3, Camac St., Calcutta 700016.

Plastic Powders Pvt. Ltd., 1, A. Mukherjee Rd., Belgharia 700056. 24-Parganas.

Waldies Ltd., A-1, Gillander House, N. Subhas Rd., Calcutta 700001.

PLASTIC SHEETS—METALLISED, ETC.

Chemicoat Ltd., Kalab Rd., P. O. Atladara, Vadodara 390003.

Jobshan Inds., 39, Govt. Ind. Estate, Kandivli West, Bombay 400067.

Vac Met Corpn., Pvt. Ltd., Damodar Udyog Kendra, Udhna Udyog Nagar, Udhna 394210.

PLASTIC SPECTACLE FRAMES

Madhya Pradesh

Vijay Plastics Pvt. Ltd., Ind. Area, Govindpura, Bhopal 462001.

Maharashtra

Montex Corpn., Yusuf Bldg., M. Gandhi Rd., Bombay 400023.

PLASTIC TOOTH BRUSHES

Delhi

Sarosh Corpn. (Ind.), 23F, Nizamuddin West, New Delhi 110013.

Maharashtra

Aryan Brush Co. Ltd., Lentin Chambers, Dalal St., Bombay 400023.

Ashish Manufg. Co., A-47, Royal Optical Ind. Estate, Wadala, Bombay 400031.

Vita Pvt. Ltd., Laxmi Woollen Mills Estate, Haines Rd., Mahalaxmi, Bombay 400011.

PLASTIC TUBING

ABC Synthetics Pvt. Ltd., 323, Arun Chambers, Tardeo Rd., Bombay 400034.

PLASTIC VACUUM FORMING

Poona Complast Pvt. Ltd., Plot No. 72, D-III, M.I.D.C. Indl. Est., Chinchwad, Pune 411019.

Vacuum Forming Co., 3-21, Prabhadevi Ind. Estate, 402, V. Savarkar Marg, Bombay 400025.

PLASTICIZERS

Alta Laboratories Pvt. Ltd., Alta Bhavan, 532, Senapati Bapat Marg, Dadar, Bombay 400028.

Amines & Plasticizers Ltd., D Bldg., Shivsagar Estate, Dr. A. B. Rd., Worli, Bombay 400018.

Indo-Nippon Chemical Co. Ltd., Maker Bhuvan, New Marine Lines, Bombay 400020.

PLAYING CARDS

Bright Mfg. Co., 14-A, Tank Bunder Rd., Bombay 400010.

Hindustan Playing Cards Mfg. Co., C.S.T. Rd., Kalina, Bombay 400029.

Laxmi Playing Cards Mfg. Co., 23, Goa St., Bombay 400001.

Metro Playing Cards Co., Metro Est., Central Salsette Track Rd., Kalina, Bombay 400029.

Parksons Printers, Ind. Est., Lalbaugh, Bombay 400012.

Popular Fine Art Litho Works Pvt. Ltd., 133–C, Vakola, Santa Cruz East, Bombay 400055.

PLYWOOD PRODUCTS

Abeejay Agencies Pvt. Ltd., 61, Muktaram Babu St.,, Calcutta 700007.

Andaman Timber Inds. Ltd., 8, Tolstoy Marg, New Delhi 110001.

Assam Forest Products Pvt. Ltd., Adex House, 6, Rampart Row, Bombay 400001.

Balaji Metal & Plywoods, Devraj Bldg., S. V. Rd., Goregaon West, Bombay 400062.

Bharat Plywood & Timber Products Pvt. Ltd., Fort Rd., Cannanore 670001. (Kerala).

Central Plywood Agency, 53, C. R. Ave., Calcutta 700012.

Free India Plywood Co., Cheruvannur, Feroke, Calicut 673631. (Kerala).

Godavari Plywoods Ltd., B-4 F1, Poonam Apartments, Chirag Ali Lane, Abid Rd., Hyderabad 500001.

Hunsur Plywood Products Ltd., P.B. No. 2, Hunsur 571105. (Karnataka).

Indian Plywood Mfg. Co. Ltd., 9, Wallace St., Bombay 400001.

Indian Plywood Mfg. Co. Ltd., Dharwar 580007.

Indian Plywood Mfg. Co. Ltd., Akber House, 151, Broadway, Madras 600001.

Kanara Wood & Plywood Inds., Jeppu, Mangalore 575002.

Maklai Timber & Plywood Co., 79, Ghogari Mohalla, Bombay 400003.

Malabar Plywood Works, Feroke, Calicut 673631. (Kerala).

Meghalaya Plywoods Ltd., Bara Bazar Rd., Shillong 793002. *Branches :* 453, C.I.T. Scheme, Calcutta 700029; Pinto Villa, R. B. S. K. Bole Rd., Dadar, Bombay 400028.

Mysore Chip Boards Ltd., 13-D, Gokulam Rd., V. V. Mohalla, Mysore 570002.

Mysore Plywood Corpn., 76, Ismail Curtey Rd., Bombay 400003.

Mysore Plywoods Ltd., Post Box No. 2276, Yeshwantpur, Bangalore 560022.

Nagaland Forest Products Ltd., Tijit. Mon Dist. 798621. (Nagaland).

Om Parkash Fateh Chand Pvt. Ltd., 7/7, D. B. Gupta Rd., Paharganj, New Delhi 110055.

Orient Plywood & Veneering Inds. Ltd., 34-B, Jolly Maker Chambers II, Nariman Point, Bombay 400021.

Plywood Emporium, 61, C. R. Ave., Calcutta 700012.

Polyformalin Pvt. Ltd., Lamina, Banerji Rd., Cochin 620018.

Purushotham Goculdas Plywood Co., Purushotham Goculdas Bldg., Cannanore 670001. (Kerala).

South India Plywood Inds., Post Box No. 55, Kottayam 686001. (Kerala).

Southern India Plywood Co., Peramannur, Mangalore 574159.

Southern Veneers & Woodworks Ltd., Post Box No. 35, Tellicherry 670101. (Kerala).

Sundershan Plywood Inds., 62-B, August Kranti Mrg., Bombay 400036.

Sylvan Plywood Mills, Post Box No. 1, Kallattumkara, Trichur 680683. (Kerala).

Synthetic Plywood Inds. Pvt. Ltd., B-4, Ind. Estate, Uppal, Hyderabad 500039.

Varat Timber Assam Pvt. Ltd., Tinsukhia 786125. (Assam State).

Venus Plywood Co., P.O. Nemmara, Palghat 678508. (Kerala).

Western India Plywoods Ltd., Mill Rd., P.O. Baliapatam, Cannanore 670010. (Kerala).

Woodcrafts Assam, Lal Dwara Bldg., New Link Rd., Jhandewalan, New Delhi 110055.

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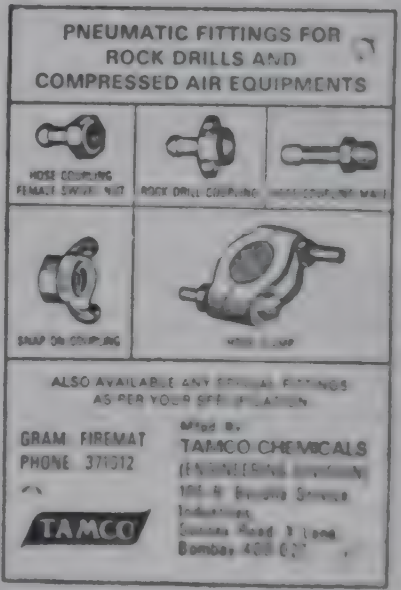
Madras : 35, Mount Road, Nandanam, Madras 600 035.
New Delhi : 607 & 608, Eros Apartments, 6th Floor, 56, Nehru Place, New Delhi 110 024.
Jamshedpur : Flat No. N-2/K-5, Muneshwari Bhawan, Contractors' Area, Jamshedpur-1 (Bihar).
Goa : Flat No. 3, First Floor, Marchon Building, Opp. Lohia Maidan, Margao, Goa.
Bangalore : 244-A, VII Block, Second Main Road, Jaya Nagar, Bangalore 560 011.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Edicon Mining Equipment, Guru Gobind Singh Ind. Estate, Unit 12, Off W. Express Highway, Goregaon (E), Bombay 400063.

Industrial & Mining Tools Co., P36, India Exch. Place, Calcutta 700001.

Tomco Chemicals (Engg. Dn.), 105, Byculla Service Inds., Sussex Rd. X Lane, Bombay 400027.

Wintrol, 98/10A, Peenya Indl. Area, Bangalore 562140.

(Also see under 'Tools — Pneumatic' in this list.)

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Adair Dutt & Co. India Pvt. Ltd., 5, Dalhousie Sq. East, Calcutta 700001.

Nistarini Electric Co. Pvt. Ltd., 20, N. Subhas Rd., Calcutta 700001.

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(See under Nylon & Polyester Yarn in this list.)

POLYSTYRENE, POLYPROPYLENE & POLYFIBRES

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Hindustan Polymers Ltd., 264, A. Besant Rd., Bombay 400025.

Neomar Ltd., Alembic Rd., Vadodara 390003.

Stretch Fibres India Ltd., 20, Dr. E. Moses Rd., Mahalaxmi, Bombay 400011.

Well-Packed Packaging Pvt. Ltd., 105/107, Abdul Rehman St., Bombay 400003.

POLYTHENE BAGS

Andhra Pradesh

Andhra Polythelane Ind., 5-5-689/2, Goshamahal, Hyderabad 500012.

Sanathnagar Polythene Ind., 15/6/490, Kamalkhan Devdi, Begum Bazar, Hyderabad 500012.

Delhi

Chanson Plastic Manufg. Co., I-104, Panchsheel Enclave, New Delhi 110017.

Hindustan Plastic Corpn., C-239, Mayapuri Indl. Area, Phase II, New Delhi 110027.

New Poly Pack Pvt. Ltd., C-9, Friends Colony, New Delhi 110014.

Rexco Industries (I.) Ltd., Expo Plastics, G-35, Gulabi Bagh, Delhi 110007.

Gujarat

Elite Plastic Co., 12A, Bharatkhand Cotton Mills Compound, Naroda Rd., Ahmedabad 380001.

Hindustan Polythene & Plastic Works, Ind. Area, Yamuna Mill Rd., Vadodara 390004.

Parag Plastic Industries Pvt. Ltd., 80, Makarpura Ind. Estate, P.B. No. 199, Vadodara 390001.

Karnataka

Paxal Corpn., No. 13, Sri Krishnarajendra Rd., Fort, Bangalore 560002.

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Kalpana Plastic Ind., 20/2, Hadapsar Ind. Estate, Pune 411013.

Maharashtra Plastic Industries, Subhas Nagar, Off Caves Rd., Jogeshwari East, Bombay 400060.

Narichania Consultancy & Agency Pvt. Ltd., P. B. No. 207-A, 22, Sir P. M. Rd., Bombay 400001.

Oyatape Fibres Pvt. Ltd., Sunderbaug Estate, Bharat Silk Mills Compd., LBS Mrg., Bombay 400070.

Pearl Thread Mills Ltd., Laxmi Bldg., 6, Shoorji Vallabhdas Mrg., Bombay 400038.

Polyfab Plastic Ind., 121/127, Kazi Syed St., Bombay 400003.

Polythene Printing & Sealing Works, 340, Girgaum Rd., Bombay 400002.

Ravi Corpn., Bussa Indl. Est., Century Bazar Lane, Bombay 400025.

S. L. Trading Co., 236A, Maulana Azad Rd., Bombay 400008.

Shree Mahalaxmi Trdg. Corpn., 198, Kalbadevi Rd., Bombay 400002.

Vora Bros., 115, S. Devji St., Bombay 400003.

Tamil Nadu

New Paramount Industries, 28, Buddi Sahib St., Madras 600001.

Polyene General Ind. Pvt. Ltd., 11A, Ind. Estate, Guindy, Madras 600032.

West Bengal

Bengal Polythene Bag Co., 55, Canning St. (Mehta Bldg.), Block E, Calcutta 700001.

General Extruders, 128, Hazra Rd., Calcutta 700026.
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Lite Engg. Industries, 19, Pollock St., Calcutta 700001.
Orissa Plastics, 40, Strand Rd., Calcutta 700001.
Plasto Craft Industries, 4, Synagogue St., Calcutta 700001.
Polymers India Pvt. Ltd., 10, Mall Rd., Dum Dum, Calcutta 700028.
Shree Uma Textile & Ind., 196, J. Bajaj St., Calcutta 700007.

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Glosso Pack Industries, Laxmi Woollen Mills Compd., B. Jagtap Mrg., Bombay 400011.
Gujarat Polythene Ind., 86, Sutar Chawl, Ghia Mansion, Bombay 400002.
Sinter Plast Containers, Plastics Divn., Bharat Vijaya Mills Ltd., Kalol 382721 (Gujarat).

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Sanathnagar Polythene Ind., 15-6-490, Kamalkhan Devdi, Begum Bazar, Hyderabad 500012.
Techno Pack Pvt. Ltd., Manchukonda Gardens, Visakhapatnam 530007.

Delhi

Rexco Ind., Expo Plastics, G-35, Gulabi Bagh, Delhi 110007.
Shivalik Agro-Poly Products Ltd., 16, Nizamuddin East, New Delhi 110013.

Gujarat

D. R. Industries, Swaminarayan Godown, Outside Dariapur Gate, Ahmedabad 380001.

Karnataka

Metro Polythene Manufrs., 35/5, Kalikadevi Rd., Davangere City 577001.
Mysore Plastic Industries, Mahaveer Rd., Bijapur 586101.

Maharashtra

Glosso Pack Ind., Laxmi Woollen Mills Comp., B. Jagtap Marg, Bombay 400011.
Marvel Ind. Corpn., Block No. 118, Kakad Ind. Estate, Mahim, Bombay 400016.
Modern Packagings, 201, Kalbadevi Rd., Bombay 400002.
Pearl Plastics, Laxmi Bldg., Ballard Rd., Bombay 400038.
Plastic Processors, Interlink Ind. Estate, Jogeshwari East, Bombay 400060.
Polymer Corpn., Kansara Chawl, Kalbadevi Rd., Bombay 400002.
Pratibha Plastic Ind., 18/A-2, Bombay Poona Rd., Pune 411003.
Shree Plastics, Happy-Colony, Kothrud, Pune 411029.
United Plastics Corpn., 162, Tulsi Pipe Rd., Lower Parel, Bombay 400013.

Tamil Nadu

Oriental Plastics, 12, Singanna Naicken St., Madras 600001.

West Bengal

Alkali & Chemical Corpn. of India Ltd., 18, Strand Rd., Calcutta 700001.
Extrusions, P-38, India Exchange Place, Calcutta 700001.
General Extruders, 128, Hazara Rd., Calcutta 700026.
Orissa Plastics, 40, Strand Rd., Calcutta 700001.
Plasto Craft Ind., 4, Synagogue St., Calcutta 700001.
Polymers (India) Pvt. Ltd., 10, Mall Rd., Dum Du
Calcutta 700028.
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700007.

POLYTHENE PRODUCTS

Aasha Plastics, Shakti Mills Lane, Bombay 400011.
Gita & Co., 205, Masjid Bunder Rd., Bombay 4000
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New Delhi 110015.
Premier Cable Co. Ltd., 14/15F, Conn. Place, New Delhi
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Gujarat

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Hanuman, Rakhial Rd., Ahmedabad 380023.

Kerala

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Cable Corpn. of India Ltd., Laxmi Bldg., 6, Ballard
Ballard Estate, Bombay 400038.
Fincab Corpn., 104, Mani Mahal, Mathew Rd.,
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Plastic Extrusion Products, 16/17, Marol Ind.
M.I.D.C., Bombay 400059.
Thermo Plastic Inds., 78, Kalachowki Rd.,
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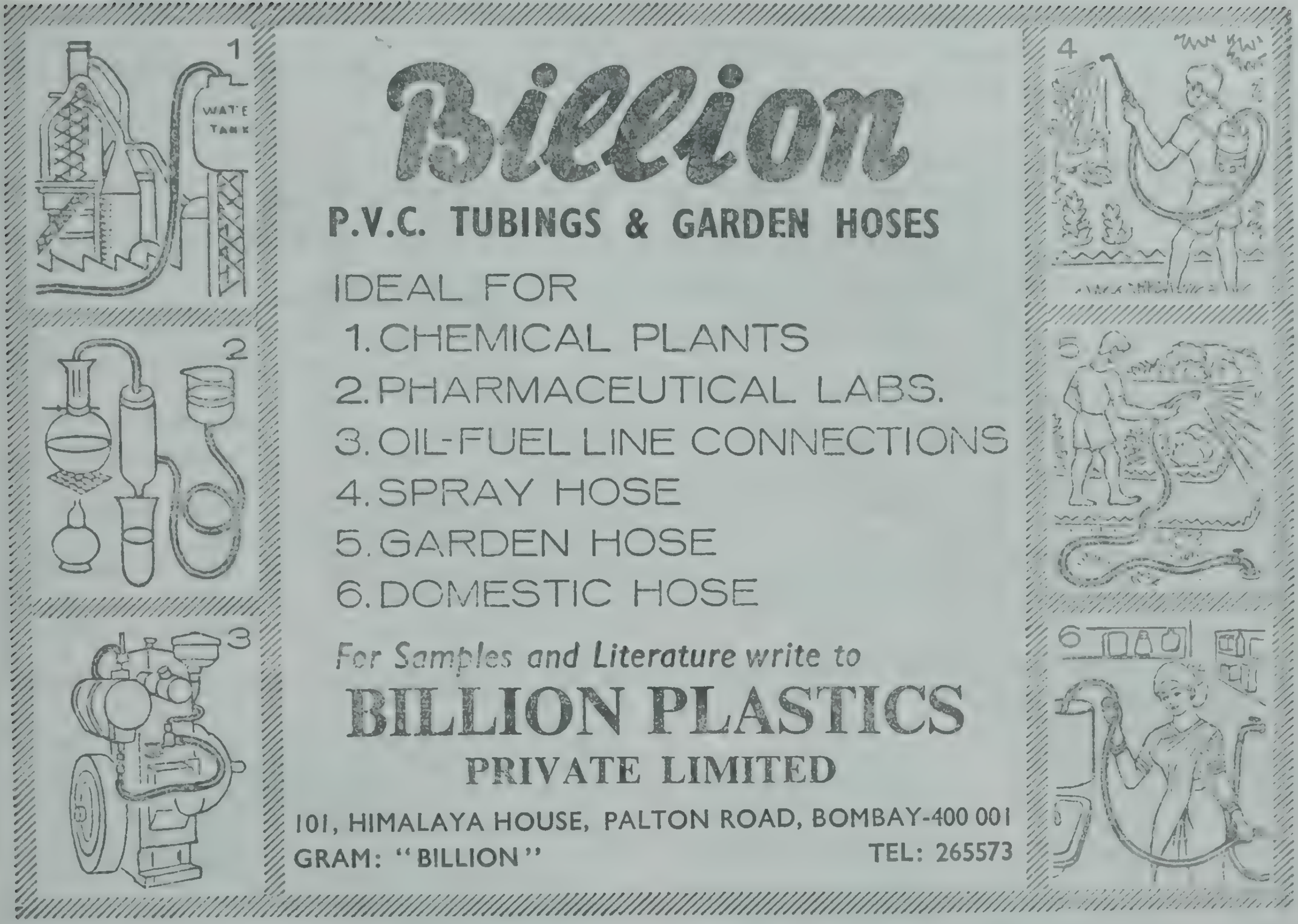
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W. Bengal

Bells Electrical Corpn., 10A, Harrington St., Calcutta 700016.

Fort Gloster Inds. Ltd., 31, Chowringhee Rd., Calcutta 700016.

P.V.C. AND FIBREGLASS FABRICATION

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Sri Lakshmi Polymers, C-4 Unit, Ind. Estate, Thanjavur 613006. (Tamil Nadu).

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Arvind Polymers Pvt. Ltd., 37/1-C, Mount Rd., Guindy, Madras 600032.

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Calico Chemicals, Plastics & Fibres Divn., Anik-Chembur, Bombay 400074.

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Jyoti Plastic Works, 94, B. T. Compd., Malad West, Bombay 400064.

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Synmates India, 85, Chandralok, S. D. Rd., Secunderabad 500003.

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Popular Stores, 155, Janjikar St., Bombay 400003.

Premier Plastics, 303, Abdul Rehman St., Bombay 400004.

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Maharashtra

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Plastic Resins & Chemicals Ltd., Bharat Insurance Bldg., 15-A, Horniman Circle, Bombay 400023.

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Tamil Nadu

Chemicals & Plastics India, Ltd., Dhun Bldg., 175/1, Mount Rd., Madras 600002.

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India Metal Inds., 139/141, C. P. Tank Rd., Bombay 400004.

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Noble Electric Co., Kala Ind. Estate, LBS Mrg., Bombay 400078.

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Tempo Engg. Works, 215, Kamla Mkt., New Delhi 110002.

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Victory Engg. & Indl. Works, Qutab Rd., Delhi 110006.

W. R. Talwarker Bros. Ltd., Sharif House, 74, S. Bhagat Singh Rd., Bombay 400023.

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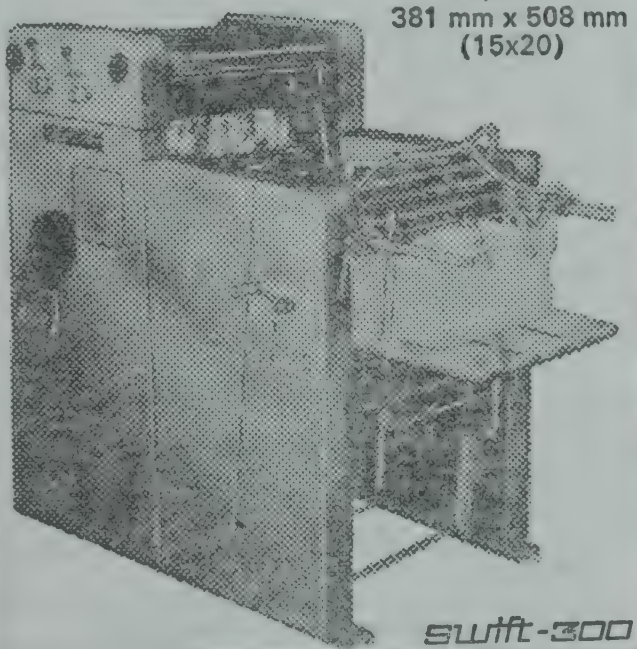

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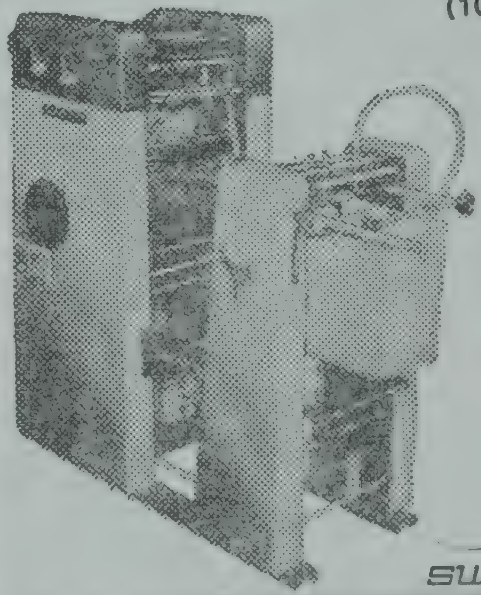

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Lakshmi Type Foundry, 3938, Machhli Walan, Delhi 110006.

Print & Paper Sales Pvt. Ltd., 4/7A, Waterloo St., Calcutta 700001.

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Electronica, 691/1A, Satara Rd., Pune 411009.

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Fabrica, Instrument Dn., 60, V. B. Gandhi Mrg., Bombay 400023.

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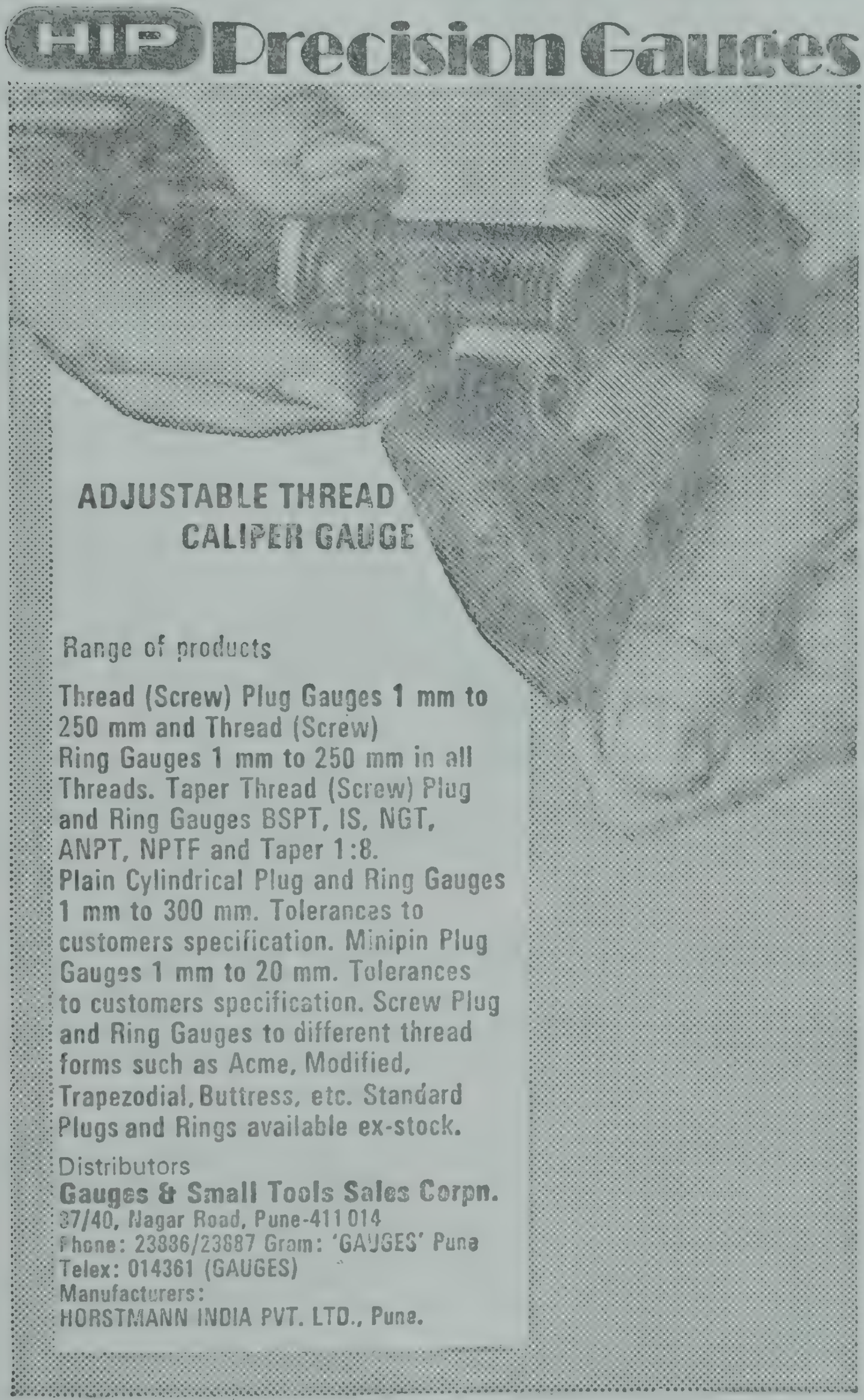

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Industrial Mill Gin Stores, 51/53, Nagdevi Cross Lane, Bombay 400003.

J. N. Marshall Pvt. Ltd., Bombay-Pune Rd., Pimpri, Pune 411018.

Larsen & Toubro Ltd., L & T House, Ballard Estate, Bombay 400038.

Laxsons Engg. & Electronics Pvt. Ltd., Laxsons House, Plot No. AA-2, Walbhat Rd., Goregaon East, Bombay 400063.

Mahlo-Star Electronic Equipments Pvt. Ltd., Shree Laxmi Woollen Mills Estate, Dr. E. Moses Rd., Bombay 400011.

Mapuna Indl. Corpn., Opp. Phoenix Mills Ltd., S. Bapat Mrg., Bombay 400013.

Metzer (India) Optical Instruments Co., 79, Palton Rd., Bombay 400001.

National Instruments Ltd., K. Parikh House, 47, P. D'Mello Rd., Bombay 400009.

P. Dalal & Co., 104, Kakad Chambers, 132, Dr. A. Besant Rd., Bombay 400018.

Phillips India Ltd., Shivsagar Estate, Dr. A. Besant Rd., Bombay 400018.

Precision Instrument Co., Jolly Maker Chambers No. 2, Nariman Pt., Bombay 400021.

Pyrotech Instruments Corpn., 340, Jaigopal Ind. Estate, 510, Bhavani Shankar Rd., Bombay 400028.

Spirax-Marshall Ltd., Bombay-Pune Rd., Pimpri, Pune 411018.

Star Trdg. Co. Pvt. Ltd., Dhanraj Mahal, Apollo Bunder, Bombay 400039.

Testing Machines Corpn., Kakad Chambers, 132, Dr. A. Besant Rd., Bombay 400018.

Toshinwal Bros. Pvt. Ltd., 198, J. Tata Rd., Bombay 400020.

Tradeweld, 7, Kakad Chambers, 132, Dr. A. Besant Rd., Worli, Bombay 400018.

Vijay Lakshmi Electric Co., Sitaram Bldg., 37, Dr. D. Naoroji Rd., Bombay 400001.

Yashmun Engrs. Ltd., A-69/70, Rd. No. 22, Wagle Ind. Estate, Thane 400604.

Orissa

National Instruments Ltd., Coll. Square, Cuttack 753003.

Punjab

Accumeasures Punjab Ltd., 3-A, Sector 7-C, Madhya Mrg., Chandigarh 160019.

Molins of India Ltd., A-7, Ind. Estate, Mohali 160051.

Rajasthan

Instrumentation Ltd., Kotah-Jhalawar Rd., Kotah 324001.

Tamil Nadu

Espa Industrials, 6, Housing Board Rd., Kuniamuthur, Coimbatore 641008.

National Instruments Ltd., 150A/3, Anna Salai, Madras 600002.

Precision Controls, 94B, Mount Rd., Madras 600018.

Premier Instruments Coimbatore Ltd., Perianaickenpalayam, Coimbatore 641020.

Ramm Precision Products Pvt. Ltd., Gopal Bagh, Avanashi Rd., Coimbatore 641018.

West Bengal

Bestobell India Ltd., Grosvenor House, 21, Camac St., Calcutta 700016.

Engineering Manufrs. Pvt. Ltd., 34, Jhil Rd., Calcu 700031.

H. Guru Instruments Pvt. Ltd., 10B, Ho Chi Minh Sar Calcutta 700016.

Mahindra & Mahindra Ltd., 6, Little Russel St., Calcu 700016.

Mansfield Oil Gas Co. Ltd., 16, R. Chowdhary Calcutta 700015.

National Instruments Ltd., 1/1, Raja S. C. Mullick Jadavpur, Calcutta 700032.

Precision Tools and Accessories, 50-B, Gariahat Calcutta 700019.

Process Control Equipment Co., 44, J. Mitter St., Calcu 700005.

W. J. Alcock & Co. Pvt. Ltd., K. S. Ray Rd., Calcu 700001.

PROCESS PLANTS

Mirch Mirex Ltd., Delstar, Hughes Rd., Bombay 4000

PUBLIC ADDRESS SYSTEMS

Ahuja Radios, 215, Okhla Ind. Estate, New Delhi 1100

Allgemein Sana Ind., 1903, Chandni Chowk, Delhi 1100

ETA Radio Ind., 4491, Patnamal St., Pahari Dhi Delhi 110006.

General Radio Corpn., 2/2, Jhandewalan Ext. Sche New Delhi 110055.

Motwane Pvt. Ltd., 127, M. Gandhi Rd., Bombay 4000

Shah Audio-Vision Centre, 66, Shanti Sadan Estate, O Dinbai Tower, Lal Darwaja, Ahmedabad 380001.

Singh Radio Co. India Pvt. Ltd., 21, Daryaganj, N Delhi 110002.

PULLEYS, HOISTS, TACKLES

(See under Material Handling Equipment.)

PUMPS & PUMPING SETS

Andhra Pradesh

Balaji Industrial & Agri. Castings, 4-3-140, Hill St., P. No. 1634, Secunderabad 500003.

Kakati Karshak Inds. Pvt. Ltd., Nacharam Ind. Ar Hyderabad 501507.

Neeta Enterprises Pvt. Ltd., A-3, Co-op. Ind. Esta Balanagar, Hyderabad 500037.

Sri Ram Engg. Co., Opp. Synthetic Drugs Project, Kak palli, Hyderabad 500037.

Delhi

Amta Inds., 17, DLF Indl. Estate, New Delhi 110015

DGL Pvt. Ltd., 14/M, Block, Connaught Circus, N Delhi 110001.

Flowmore Pvt. Ltd., E Block, Connaught Place, N Delhi 110001.

Gautam Electric Motors Pvt. Ltd., 42, Okhla Ind. Esta New Delhi 110020.

I.M.C. Vogel Ind. Pvt. Ltd., 4E/8, Jhandewalan E New Delhi 110055.

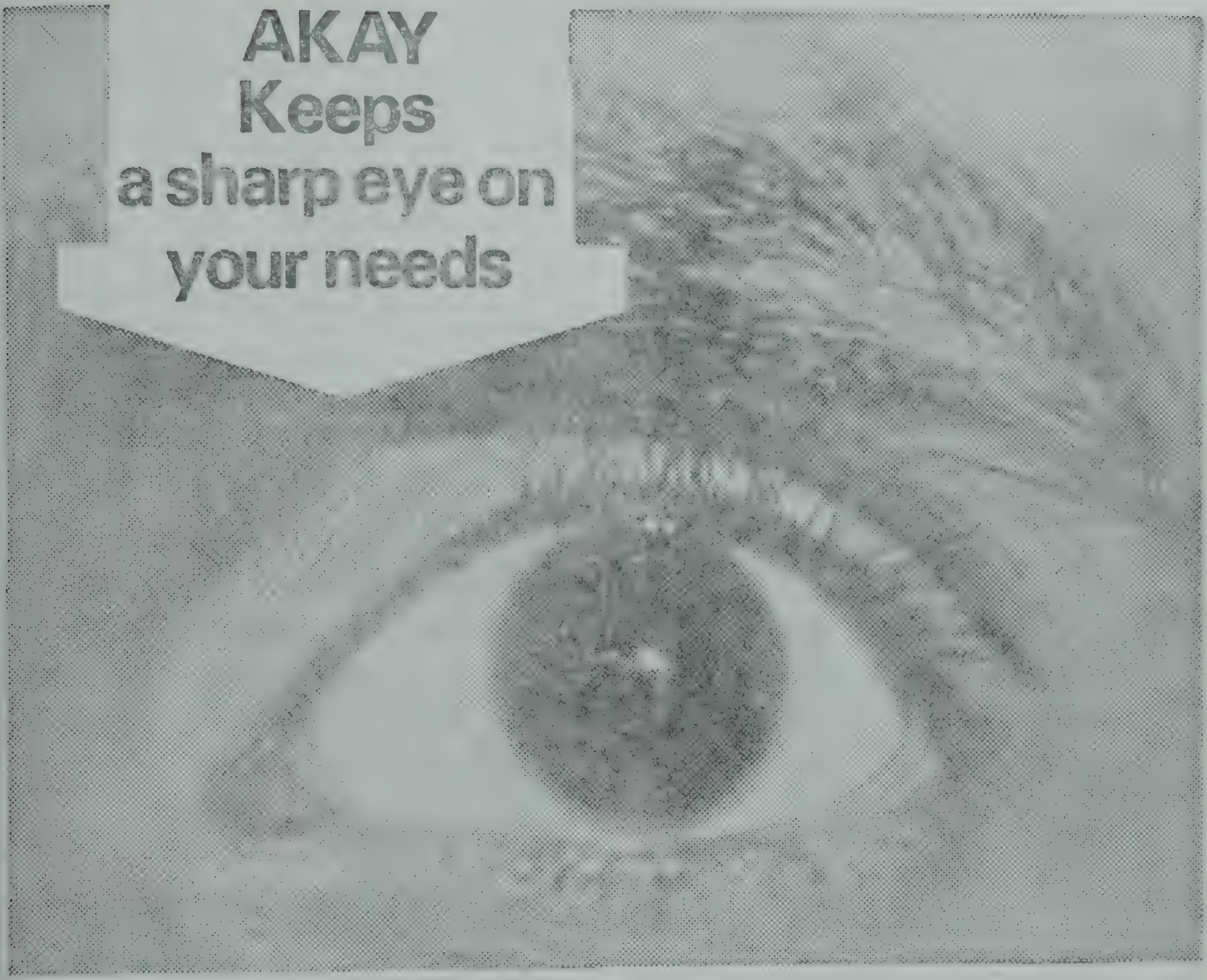
Goa

Octagon Fabricators, Govt. Indl. Estate, Corlim, I 403110.

Gujarat

Bomin Pvt. Ltd., Odhav 382410. (Ahmedabad

Economy Engg. Co., P.B. No. 57, Ruvapari Rd., nagar 364001.



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Jyoti Ltd., 1/8, Indl. Estate, Gorwa, Vadodara 390003.
Machino Techno, Jawahar Rd., Bilimora 396321.
Navalram Agro-Machineries Pvt. Ltd., Near Kalyan Mill, Naroda Rd., Ahmedabad 380002.
Pump Engg. Co., C-39, G.I.D.C., Odhav 382415 (Ahmedabad Dist.).
S. L. M. Maneklal Inds. Ltd., Vatva, Ahmedabad 382440.
Shree Engrs. & Founders, Varachha Rd., Surat 395003.
Sigil (India) Services Pvt. Ltd., 1/3, Indl. Estate, Atladara, Vadodara 390003.

Karnataka

Akay Inds., Station Rd., Hubli 580020.
Best & Crompton Engg. Co. Ltd., Yediyur, Bangalore 560011.
Protecto Engg. Corpn., 83, Silver Jubilee Park Rd., Bangalore 560002.

Kerala

Kerala Electrical & Allied Engg. Co. Ltd., Kundara 691501.
Kumar Inds., Edathara 678611, South Malabar.

Madhya Pradesh

Kirloskar Bros. Ltd., Dewas 455001.

Maharashtra

Abbo's Engg. Pvt. Ltd., 15/11, Kothrud, Pune 411029.
Acme Manufg. Co. Ltd., Antop Hill, Bombay 400031.
Airauto Engg. Co., 38, Gala Ind. Estate, Mulund (West), Bombay 400080.
Akay Ind., Shiv Sagar Estate, A. Besant Rd., Bombay 400018.
Arjan Singh Khemchand, 118, Commerce House, Medows St., Bombay 400023.
Bhangar Bros. & Co. Pvt. Ltd., 142/48, S. Vivekanand Rd., Jogeshwari, Bombay 400060.
Bharat Bijlee Ltd., Udyognagar, Electric Mansion, Near Century Bazar, Bombay 400025.
Bharat Electric & Engg. Co., 21, Dalal St., Bombay 400023.
Calama Ind. Pvt. Ltd., 7, Gaiwadi Ind. Estate, S. V. Rd., Goregaon, Bombay 400062.
Cooper Engg. Ltd., Satara 415001.
Crescent Iron & Steel Corpn. Ltd., Ind. Estate, Lalbaug, Bombay 400012.
Crompton Greaves Ltd., Kanjur, Bombay 400078.
D.C.M. Engg. Work, Ocean View, A-4, Khan Rd., Worli, Bombay 400018.
Delta Corpn., Udyog Bhavan, Naigaum Cross Rd., Bombay 400031.
Florite Engg. Corpn., 162, Tulsi Pipe Rd., Opp. Phoenix Mills, Lower Parel, Bombay 400013.
Herberts Grovers Engg. Co., Hamam St., Bombay 400023.
Hindustan Dorr-Oliver Ltd., Dorr-Oliver House, Chakala, Andheri (E), Bombay 400093.
Ingersoll-Rand India Pvt. Ltd., Maybaker House, S. K. Ahire Mrg., Bombay 400025.
International Instruments, 15, Samrat Silk Mills Estate, Bombay 400079.
J. B. Sawant Engg. Pvt. Ltd., Udyog Nagar, Gore
(W), Bombay 400062.
K.S.B. Pumps Ltd., 173, J. Tata Rd., Bombay 40
Kirloskar Bros. Ltd., Udyog Bhavan, Tilak Rd.,
411018.
Kishor Pumps Pvt. Ltd., A 13/H, Block, MIDC
Area, Pimpri, Pune 411018.
Larsen & Toubro Ltd., L. & T. House, Ballard Es
Bombay 400038.
Lynx Machinery Ltd., 43, Nariman Rd., Bombay 40
Mather & Platt Ltd., Hamilton House, 8, Graham
Ballard Estate, Bombay 400038.
Mercantile & Ind. Dev. Co. Pvt. Ltd., National Ho
6, Tulloch Rd., Bombay 400039.
Modi Industries (F.C.) Pvt. Ltd., 62, B. Shankar
Dadar, Bombay 400028.
Narhari Engg. Works, 480, Kalbadevi Rd., Bom
400002.
New Vijay Ind. Ltd., P.O. Wellington College, Vishra
bagh, Sangli 416416.
Packco Engg. Pvt. Ltd., Block 2, Shivaji Udyam Na
Kolhapur 416001.
Poona Intermesh Pump Pvt. Ltd., S-116, Pune 411
Protos Engg. Co. Pvt. Ltd., 173, J. Tata Rd., Bom
400020.
Radiant Electric & Machinery Co., C/12, A, Comme
House, Tardeo, Bombay 400034.
Rohini Engg. Works Pvt. Ltd., Ind. Estate, M
416410.
Ruston & Hornsby (I) Ltd., Chinchwad 411019. Pune D
Semeicon Pvt. Ltd., 132, A. Besant Rd., Bombay 40
Shivaji Works Ltd., Shivashahi 413224. Solapur Dist.
Shukla-Manseta Ind. Pvt. Ltd., 8, Hamam St., Bom
400001.
Sigil (I) Services Pvt. Ltd., Ismail Bldg., 381, Dr.
Naoroji Rd., Bombay 400001.
SU Motors Pvt. Ltd., Bal Rajeshwari Rd., Off L
Marg, Mulund, Bombay 400080.
Tahira Ind. (I) Pvt. Ltd., 19/21, Manohardas St., O
G.P.O., Bombay 400001.
Teknoworks (India), Lal Bahadur Shastri Marg, Bhand
Bombay 400078.
Todi Ind. Pvt. Ltd., Todi Estates, Lower Parel, Bom
400013.
Vickers Sperry of India Ltd., Akurli Rd., Kandi
Bombay 400067.
Vishvanath Industries, 99, Netaji Subhas Rd., Bom
400002.
W. R. Talwalker Bros. Pvt. Ltd., Lentin Chamb
Dalal St., Bombay 400023.
Water Supply Specialists Pvt. Ltd., 8, Hamam S
Bombay 400023.

Rajasthan

Pump Manufg. Corpn., Opp. M.I. Rd., Jaipur 302001.

Tamil Nadu

Balasubramania Foundry, 166, Patel Rd., Coimba
641009.
Best & Crompton Engg. Ltd., 13/15, North
Madras 600001.
Bharat Foundry, 13, Amman Kulam Rd., Pappa
kenpalayam, Coimbatore 641018.
British & Eastern Engg. Co., No. 16, General Pa
Rd., Madras 600002.

Chandra Foundries Pvt. Ltd., 55, Basin Bridge Rd., Madras 600021.

Dhandayuthapani Foundry Pvt. Ltd., 2/1, Pappanaickenpalayam, Coimbatore 641018.

Eastern Electrical Co. Pvt. Ltd., 26/22, Aerodrome Rd., Singanallur, Coimbatore 641005.

EL P EM Industrials, Mettupalayam Rd., Coimbatore 641002.

Elgi Equipments Ltd., India House, Trichy Rd., Coimbatore 641018.

Eltex Engg. Corpn. Pvt. Ltd., P.O. Ganapathy, Coimbatore 641006.

General Engg. Co., Mettupalayam Rd., Coimbatore 641011.

IAEC Pumps Ltd., Near Villivakkam Rly. Stn., Rajamangalam, Madras 600049.

Kala Ind. Pvt. Ltd., Mettupalayam Rd., P.O. Tudiyalur, Coimbatore 641034.

Meenakshi Engg. Works, 12, Periathambi Mudali St., Madras 600007.

Mouli & Sons Engrs. Pvt. Ltd., 43, Rajaji Rd., Ramnagar, Coimbatore 641009.

Nasa Pump Factory, B-13, Guindy Indl. Estate, Madras 600032.

P. S. G. Industrial Institute, Peelamedu, Coimbatore 641004.

Prakash Engg. Co., Mettupalayam Rd., P.O. Saibaba Mission, Coimbatore 641011.

Premier Ind., Trichy Rd., Coimbatore 641005.

Raja Foundry, Ammankulam Rd., Pappanaickenpalayam, Coimbatore 641018.

Ramu Foundry, 353, Avanashi Rd., Coimbatore 641018.

Sabari Foundry, Mettupalayam Rd., P.O. Saibaba Mission, Coimbatore 641011.

Shell India Foundry, Peelamedu, Coimbatore 641004.

Southern Engg. Ind., 343, Avanashi Rd., Coimbatore 641018.

Sree Srinivasa Foundry, Ammankulam Rd., Pappanaickenpalayam, Coimbatore 641037.

Subbiah Foundry, Avanashi Rd., Pappanaickenpalayam, Coimbatore 641018.

T. R. Ind., Kuniamuthur, Coimbatore 641008.

Texmo Ind., P.O. Ganambika Mills, Coimbatore 641011.

Vanton Pumps (India) Ltd., 84, G.S.T. Rd., Madras 600044.

Uttar Pradesh

Delta Engg. Co. Pvt. Ltd., Chipi Tank, Meerut 250001.

Jai Gopal Inds., Civil Lines, Bulandshahr 203001.

Roto Pumps & Hydraulics Pvt. Ltd., 162B, Co-op. Ind. Estate, Kanpur 208022.

Roxon Engg. Corpn., G.T. Rd., Ghaziabad 201001.

West Bengal

Associated Electrical Ind. (I) Ltd., Crown House, 13, R. Mukherjee Rd., Calcutta 700001.

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C.S.K. Industries, 219/C, Old China Bazar St., Calcutta 700001.

Electric Construction & Equipment Co. Ltd., 27/B, Camac St., Calcutta 700001.

Electl. & Mechanical Equipment Corpn., 17, Das Le., Calcutta 700012.

General Electric Co. of India Ltd., 6, Chittaranjan Ave. Calcutta 700013.

Hindustan Machines & Pumps, 17, Das Lane, Calcutta 700012.

Hindustan Pumps & Machinery Corpn., 3, N. C. Chowdhury Rd., Kasba, Calcutta 700042.

Indian National Diesel Engine Co. Ltd., Little Russel St., Calcutta 700071.

International Combustion India Ltd., 101, Park St., Calcutta 700016.

Johnston Pumps India Ltd., 2, Fairlie Place, Calcutta 700001.

Lloyds Engg. Co., 3, Amratolla St., Calcutta 700001.

Plant & Machinery, 3, Mangoe Lane, Calcutta 700001.

Precivac Engg. Co., Jogendra Garden, Rajdanga, 24 Parganas.

Roger Engg. Works, 23A, N. Subhas Rd., Calcutta 700001.

Varat Pumps & Machinery Pvt. Ltd., 20, N. Subhas Rd., Calcutta 700001.

RADIO & TELEVISION SETS (Also see under Television Sets).

Andhra Pradesh

Bharat Television Ltd., 1-10-63/64, Begumpet, Hyderabad 500016.

Electronics Corpn. of India, Indl. Area, Hyderabad 500040.

Delhi

British Radio & General Supply Co., Gauri Shanker Temple, Chandni Chowk, Delhi 110006.

General Radio Corpn., 2/2, Jhandewalan Ind. Scheme, New Delhi 110055.

National Radio Corpn., 2, DLF Najafgarh Rd., New Delhi 110015.

Singh Radio Co. (India) Pvt. Ltd., 21, Darya Ganj, New Delhi 110002.

Telefunken (India) Ltd., G-4, N.D.S.E., Part I, New Delhi 110049.

Telesound India Ltd., G-4, NDSE Part I, New Delhi 110049.

Television Service Corpn., G-8A, Hauz Khas, New Delhi 110016.

Television & Sound Centre, 16/1022, Main Arya Samaj Rd., Karol Bagh, New Delhi 110005.

Televista Electronics Pvt. Ltd., 293, Okhla Ind. Estate, New Delhi 110020.

Weston Electronics Pvt. Ltd., 244, Okhla Ind. Estate, New Delhi 110020.

Gujarat

Parry Engg. & Electronics Pvt. Ltd., Opp. Jain Temple, M. Gandhi Rd., Ahmedabad 380001.

Power Cables Pvt. Ltd., 40, Alkapuri, Vadodara 390005.

Karnataka

Associated Electronic & Electrical Ind. (Bangalore) P Ltd., 113-A, Brigade Rd., Bangalore 560001.

Electronic Devices, Andrews Bldgs., M. Gandhi R Bangalore 560001.

Radio & Electricals Mfg. Co. Ltd., 2, Mysore Rd., Ban lore 560026.

Maharashtra

Aarjay & Co., Walker House, 381, Dr. Bhadkamkar R Bombay 400007.

Acharya Electronics Ltd., 38-C, MIDC Indl. Ar Hinghana Rd., Nagpur 440001.

Afco Ltd., 9, Wallace St., Bombay 400001.

Bhatty Electronics Corpn., 98, Ind. Estate, Kand West, Bombay 400067.

Bush India Ltd., Sukh Sagar, Sandhurst Bridge, N. Patkar Marg, Bombay 400007.

Cosmic Radio, 9-B, Mahal Ind. Estate, M. Caves R Andheri (E), Bombay 400093.

Mulchandani Electrical & Radio Ind. Ltd., Wa Ind. Area, Thane 400604.

Murphy India Ltd., Nirmal, Backbay Reclamati Nariman Point, Bombay 400021.

National Radio & Electronics Co. Ltd., Unity House, M. Parmanand Marg, Bombay 400004.

Philips India Ltd., Shivsagar Estate 'A', Dr. A. Bes Rd., Worli, Bombay 400018.

Radio Electric Pvt. Ltd., Lamington Chambers, I Bhadkamkar Rd., Bombay 400004.

Sivdarshan Electronics Corpn., 26, Jolly Maker Cham I, Nariman Point, Bombay 400021.

Telecom Ind. Pvt. Ltd., 37, Saki Vihar Rd., Bomb 400072.

Telerad Ltd. (Divn. of S. M. Chemicals & Electron Ltd.), Chandivali, Saki Vihar Rd., Bombay 400072.

Waco Radio Electronics Ind., Sukhsagar Bldg., Hug Rd., Bombay 400007.

Rajasthan

Television Combine, Jhotwara, Jaipur 302006.

Tamil Nadu

Dynavision Ltd., 1, Padmanabhanagar, Adyar, Madr 600020.

G. Janshi & Co., 2/163, Mount Rd., Madras 600002.

Uttar Pradesh

Asia Electric Mfg. Co., 329, Muthiganj. Allahabad 2110

West Bengal

Esdee Engg. Works, 50/A, Kankurgachi Rd., Calcut 700054

General Electric Co. of India Pvt. Ltd., Magnet House, Chittaranjan Ave., Calcutta 700013.

Gramophone Co. of India Ltd., Dum Dum, Calcut 700028.

Guest, Keen, Williams Ltd., Jeevan Deep, 3A, Shakespea Sarani, Calcutta 700016.

Hindustan General Electric Corpn. Ltd., 25, [illegible] Rd., Calcutta 700001.

Voice Master Radio Corpn., 159/1B, R. Behari Av Calcutta 700029.

RAILWAY COACHES, WAGONS & MATERIALS, SIGNALLING EQUIPMENT, ETC.

Bihar

Tata Engg. & Locomotive Co. Ltd., Jamshedpur

Delhi

Greysham & Co., 7249, Roop Nagar, Delhi 110007.

Karnataka

Bharat Earth Movers Ltd., Unity Bldgs., J. C. Rd., Bangalore 560002.

Madhya Pradesh

Gwalior Engg. Works, Lashkar, Gwalior 474001.

Maharashtra

K. T. Steel Ind. Pvt. Ltd., 9, Altamount Rd., Bombay 400026.

Marian Engg. Co., 7/10, Botawala Bldg., Horniman Circle, Bombay 400023.

McKenzies Ltd., Sewree, Bombay 400015.

Siemens India Ltd., 134A, A. Besant Rd., Bombay 400018.

Rajasthan

Cimmco Wagon Factory, Bharatpur 321001.

Tamil Nadu

Binny's Engg. Ltd., Meenambakkam, Madras 600027.

Integral Coach Factory, Perambur, Madras 600038.

Southern Structurals Ltd., P.B. No. 74, Madras 600006.

Uttar Pradesh

Modern Industries, Sahibabad, Ghaziabad 201001.

West Bengal

Bird & Co. Ltd., Chartered Bank Bldg., Calcutta 700001.

Braithwaite & Co. (I) Ltd., Clive Works, 3, Hide Rd., Kidderpore, Calcutta 700043.

Brocho & Co. Pvt. Ltd., 36, Weston St., Calcutta 700013.

Burn & Co. Ltd., Howrah Iron Works, Howrah 711101.

Gresham & Craven of India Pvt. Ltd., 22, Gobra Rd., Entally, Calcutta 700014.

Hindusthan Iron & Steel Co., 8, R. Deb Rd., Calcutta 700007.

Indian Standard Wagon Co., Ltd., 12, Mission Row, Calcutta 700001.

Jessop & Co. Ltd., 63, N. Subhas Rd., Calcutta 700001.

Marcandy Prasad Radhakrishna Prasad Pvt. Ltd., 65, G. T. Rd., Salkia, Howrah 711106.

National Ind. Impex Corpn., 35, Stephen House, Calcutta 700001.

Pelican Engg. Corpn. Pvt. Ltd., 36, Strand Rd., Calcutta 700001.

Railway Supply Corpn. Pvt. Ltd., 10, G. C. Ave., Calcutta 700013.

Shree Hanuman Foundry & Engg. Co. Ltd., 46, Strand Rd., Calcutta 700001.

Victoria Engg. Works, 60, Goshala Rd., Liluah 711204.

RAYON

Andhra Pradesh Rayons Ltd., 1-2-597/15, Gaganmahal, Hyderabad 500029.

Baroda Rayon Corpn. Ltd., P.O. Baroda Rayon 394220 (Surat Dist.).

Century Rayon, Industry House, Churchgate Reclmn. Bombay 400020.

Indian Rayon Corpn. Ltd., Veraval 362266. (Gujarat).

Kesoram Rayon, 10, Camac St., Calcutta 700017.

National Rayon Corpn. Ltd., Ewart House, Homi Mody St., Bombay 400023.

Shriram Rayons, Kota 324001.

Travancore Rayons Ltd., Rayonpuram 683543 (Kerala State).

RECORD PLAYERS

Gramophone Co. of India Ltd., 33, Jessore Rd., Calcutta 700028.

H. M. V., Universal Bldg., Sir P. M. Rd., Bombay 400001.

Philips (I) Ltd., 7, J. C. Madhab Rd., Calcutta 700020.

RECTIFIERS

Andrew Yule & Co. Ltd., Yule House, 8, Clive Row, Calcutta 700001.

Argo Transformers P. Ltd., 187, Dr. D. Bhadkamkar Rd., Bombay 400004.

Automatic Electric Co. Ltd., Rectifier House, 570, Naigaum X Rd., Bombay 400031.

Cresta Instruments, 140, S. Temple Rd., Bombay 400016.

Hind Rectifiers Ltd., Mahalaxmi Chambers, B. Desai Rd., Bombay 400026.

Keltron Rectifiers Ltd., Hill View, 14/864, Vellayambalam, Trivandrum 695010.

Khandelwal Hermann Electronics Ltd., Bhandup, Bombay 400078.

Pactil Electronics Pvt. Ltd., Feltham House, Graham Rd., B. Estate, Bombay 400038.

Ruttonsha-International Pvt. Ltd., P.B. No. 661, G.P.O., Bombay 400001.

Semcon Electronics Pvt. Ltd., S. D. F. Bldg., Unit No. 16, Santacruz Electronics Processing Zone, Marol Ind. Area, Mahakali Caves Rd., Andheri (E), Bombay 400093.

Sukson Ind., 16/3, Jawaharnagar, Road No. 2, Goregaon (West), Bombay 400062.

Usha Rectifiers Corpn. (I) Ltd., 12/4, Delhi Mathura Rd., Faridabad 121003.

REDUCTION GEARS & SPEED REDUCERS

Essential Engg. Co., P. Box No. 1830, Bombay 400001.

Fenner J. H. & Co. (I) Ltd., 56D, Free School St., Calcutta 700016.

Wooden Vat Mfg. Co., Pardi Stn. 396145. (Valsad Dist.).

REFRACTORY MAKERS

Andhra Pradesh

Dr. V. S. Krishna Ceramics & Potteries, Rajahmundry 533101.

Bihar

Assam Sillimanite Ltd., Ranchi Rd., P.O. Marar 829117. Hazaribagh Dist.

Bharat Firebricks & Pottery Works Ltd., Jharia 828111. Dhanbad Dist.

Harish Tara Refractories, Lake Ave., Kanke Rd., Ranchi 834001.

India Firebricks & Insulation Co. Ltd., Marar 829117. Hazaribagh Dist.

Jharia Firebricks & Refractory Works Pvt. Ltd., P.O. Dhansar 828106. Dhanbad Dist.

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Naveen Ind., Mugma, Dhanbad 826001.

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B. J. Rubber Ind., 6, Kala Indl. Est., Bombay 400078.

Basant Rubber Factory Pvt. Ltd., 103-B, Bombay-Agra Rd., Vikhroli, Bombay 400083.

Bedrock Tyre & Rubber Co., Masjid Manor, 16, Homi Mody St., Bombay 400023.

Bombay Latex and Dispersions Pvt. Ltd., Western India House, Sir P. Mehta Rd., Bombay 400001.

Bombay Rubber Works Pvt. Ltd., Saki Vihar Rd., Bombay 400072.

Carona Sahu Co., Ltd., 221, Dr. D. Naoroji Rd., Bombay 400001.

Ceat Tyres of India Ltd., 463, A. Besant Rd., Bombay 400025.

Century Rubber & Cable Ind., Sainath Ind. Estate, Kotkar Rd., Goregaon East, Bombay 400063.

Chimanlal L. Vasa, 1A, Gokhale Rd., Bombay 400004.

Cosmos India Rubber Works Pvt. Ltd., Behind R.K. Studio, Chembur, Bombay 400071.

Eagle Rubber Ind., Ghatkopar Ind. Estate, Behind Geoffrey Manners, Ghatkopar, Bombay 400086.

Firestone Tyre & Rubber Co. of India Ltd., Hay Bunder Rd., Bombay 400033.

Ghanshyam & Co., 501–3, S. V. Patel Rd., Bombay 400004.

Goodyear India Ltd., Mani Mahal, Mathew Rd., Bombay 400004.

Greentose Pvt. Ltd., 24, Dalal St., Bombay 400023.

Hind Rubber Ind. Pvt. Ltd., Suryodaya Mills Comp., Tardeo Rd., Bombay 400034.

Hindustan Rubber Works, 402, Veer Savarkar Marg, Bombay 400025.

Hindustan Tyres Pvt. Ltd., Opp. Agripada Police Station, Dr. A. R. Nair Rd., Bombay 400011.

Imperial Waterproofing Ind. (India), 14, Chakla Cross Lane, Bombay 400003.

India Rubber Products, Kasturchand Mills Estate, Dadar, Bombay 400028.

Industrial Rubber Products Pvt. Ltd., Raghu Vanshwadi, Bombay 400068.

Industrial Rubber Works, 54, Saki Vihar Rd., Bombay 400072.

International Rubber & General Industries Pvt. Ltd., 18/24, Nandlal Jani Rd., Wadi Bunder, Bombay 400009.

J. K. Ind. Ltd., Kasturi Bldg., J. Tata Rd., Bomb 400020.

J. Khushaldas & Co., "JK" Chambers, 78/83, Nagde St., Bombay 400003.

Jai Hind Rubber Products Pvt. Ltd., 391-F, Grant Ro Bombay 400007.

Kalo Rubber Works Pvt. Ltd., 56, Bhajipala La Bombay 400003.

Kirti Rubber Works, 205, S. Vivekanand Rd., Jogeshwa Bombay 400060.

Kohinoor Rubber Products, 380, Bhavani Peth, Pu 411002.

Korula Rubber Co. Pvt. Ltd., 249-B, Worli, Bomb 400018.

Lathia Rubber Mfg. Co. Pvt. Ltd., Saki Naka, Bomb 400072.

Lolap Metal & Rubber Inds., 3/4, Devasthan Ind. Estat Quay St., Darukhana, Bombay 400010.

Merchant Bros., 151, Nagdevi St., Bombay 400003.

Modak Rubber Products Pvt. Ltd., Kondivitta Villa Rd., Bombay 400059.

Nilambur Rubber Works, 52, Shri Krishna Niwas, Ne Silk Bazar, Kalbadevi Rd., Bombay 400002.

Organo Chemical Ind., 160, Dr. D. Naoroji Rd., Bomba 400001.

Oriental Rubber Factory, New Silk Bazar, Kalbadev Bombay 400002.

Oriental Rubber Ind. Pvt. Ltd., Agra Rd., Bhandu Bombay 400078.

Perfect Oil Seals & Industrial Rubber Products, 8 Bhosari Ind. Area, Pune 411026.

Picon Pvt. Ltd., 50, Nesbit Rd., Mazgaon, Bomba 400010.

Pioneer Rubber Mills (Bombay) Pvt. Ltd., L. B. Shast Marg, Bhandup, Bombay 400078.

Poly Rubber Ind., Patanwala Estate, L. B. Shastri Mar Ghatkopar, Bombay 400077.

Precision Rubber Co. (India), Jaya Talkies Bldg., Boriv (W), Bombay 400092.

Premier Rubber & Cable Ind., 211, Nagdevi St., Bomba 400003.

Premier Tyres Ltd., Merchant Chambers, New Marin Lines, Bombay 400020.

Purohit Rubber Works, 13-D, Kurla Indl. Estate, Ghat kopar, Bombay 400086.

Rane Elastomer Processors, 26-27, Agarwal Ind. Estate S. V. Rd., Dahisar (E), Bombay 400068.

Rubber Industries (India) Pvt. Ltd., Kurla-Andheri Rd Andheri, Bombay 400069.

Rubber Products Pvt. Ltd., C-44, Wagle Ind. Estate Thane 400604.

Spare-Age (I) Pvt. Ltd., 9-B, Purshottam Bldg., Tr bhuvan Rd., Bombay 400004.

Standard Latex Products, 250, Nagdevi St., Bomba 400003.

Supreme Ind. Ltd., Sewri Cross Rd., Wadala, Bomba 400031.

Swastik Rubber Products Ltd., Swastik House, Beh Kirkee Rly Stn., Pune 411003.

Vir Rubber Products Pvt. Ltd., M.I.D.C. Ind. Estate Plot No. 1, Ambernath 421501.

Pondicherry

Pondicherry Rubber Factory, C-6, Mettupalayam Ind Estate, Pondicherry [illegible]

Punjab

Ashok Rubber Works, Ind. Area, Jullundur 144001.
Bharat Rubber Factory (Regd.), 60, Indl. Area A., Ludhiana 141003.
Ralson Ind., 810, Ind. Area, Ludhiana 141001.
Universal Rubber Ind., Shalimar Garden Rd., Kapurthala 144601.

Rajasthan

Kotah Rubber Inds., Bhimganj Mandi, Kota Junction 324002.
Rajasthan Rubber Ind., C-37, Ind. Estate, Jaipur 302006.

Tamil Nadu

Automobile Rubber Products Pvt. Ltd., G-8, Ind. Estate, Madras 600058.
General Rubber & Latex Inds., 3/11, Seshachala Gramani Garden St., Madras 600019.
London Rubber Co. (India) Ltd., Madras 600043.
M. M. Rubber Co. Pvt. Ltd., 150B, Mount Rd., Madras 600002.
Madras Ind. Linings Ltd., 42/8, Gilchrist Ave., Madras 600031.
Madras Polymer Ind., 5A/147, Mount Rd., Madras 600006.
Madras Rubber Factory Ltd., P.B. 3760, Dhun Bldgs., 175/1, Anna Salai, Madras 600002.
Shakthi Rubber Works, 1, Swaminaicken St., Madras 600002.
Stanes Tyre & Rubber Products Ltd., Trichy Rd., Coimbatore 641018.
Sundaram Inds. Ltd., Usilampatti Rd., Kochadai, Madurai 625016.

Uttar Pradesh

Aliga Rubber Works, 84/8, Fazal Ganj, Kanpur 208001.
Basant Rubber Inds., Gyarpura, F. Sikri Rd., Agra 282002.
Deekay Rubber Inds., 16A, Jainnagar, Meerut 250002.
Goodday Rubber Ind., 97/6, Hira Ganj, Kanpur 208001.
Goodluck Rubber & Allied Ind., D-9, Govt. Ind. Estate, Lucknow 226001.
International Rubber Mills, P.B. 56, Bhagwat Rd., Meerut 250001.
Jain Chemical & Allied Ind., 5-B, Co-op. Ind. Estate, Vivekanand Nagar, Kanpur 208001.
Modi Rubber Ltd., Modipuram 250110 (Meerut Dist.).
Swadeshi Rubber & Gen. Mills, Baghpat Rd., Meerut 250001.

West Bengal

Ajanta Valves & Rubber Ind., 11, Pollock St., Calcutta 700001.
Alexander Pvt. Ltd., 26, Strand Rd., Calcutta 700001.
American Rubber Mfg. Co., 40, Strand Rd., Calcutta 700001.
Azad Rubber Co., 2, New Tangra Rd., Calcutta 700015.
Banik Rubber Inds., 7A, Bentinck St., Calcutta 700001.
Bata Shoe Co. Pvt. Ltd., 30, Shakespeare Sarani, Calcutta 700017.
Bengal Waterproof Works (1940) Ltd., 41, Shakespeare Sarani, Calcutta 700017.
Bhattacharya Rubber Works (1964) Pvt. Ltd., 174, Jessore Rd., Dum Dum, Calcutta 700055.
Central Rubber Works Pvt. Ltd., 20/B, Tangra Rd., Calcutta 700015.
Crown Rubber Ind. Pvt. Ltd., 3, Saklat Place, Calcutta 700013.
D. Wren & Co., Wardley House, 25, Swallow Lane, Calcutta 700001.
Deepak Rubber Ind., 7, Lyons Range, Calcutta 700001.
Dunlop India Ltd., 57B, Mirza Ghalib St., Calcutta 700016.
Everest Rubber Works, 171A, M. Gandhi Rd., Calcutta 700007.
Fort Gloster Ind. Ltd., 31, Chowringhee Rd., Calcutta 700016.
Kadar Rubber Mfg. Co. Ltd., 46/B, Theatre Rd., Calcutta 700016.
Long-Life Rubber Ind., 11-B, Topsia 2nd Lane, Calcutta 700039.
Luna Tyres Pvt. Ltd., 71/1, Canal Circle Rd., Calcutta 700054.
M. S. Rubber Co., 81A, Manicktala St., Calcutta 700006.
McMurry Rubber Works, 5, Mission Row, Calcutta 700001.
New Bharat Rubber Ind. Pvt. Ltd., 17, Paymental Garden Lane, Calcutta 700046.
Paul & Dutta Enterprises, 87/1, J. Mohan Ave., Calcutta 700005.
Phoenix Rubber Works, Old Banaras Rd., Belgachia 700037.
S. G. R. Ind. Pvt. Ltd., 10, The Mall, Dum Dum, Calcutta 700028.
Shree Krishna Rubber Works Ltd., 36, B.T. Rd., 19, R. N. Mukherjee Rd., Calcutta 700058.
Synthetics & Chemicals Ltd., 2, Brabourne Rd., Calcutta 700001.
West Bengal Rubber Works, 67, Canal Circular Rd., Calcutta 700054.

RUBBER—RECLAIMED

Indian Rubber Regenerating Co. Ltd., Plot No. F-2, Wagle Ind. Estate, Thane 400604.
Rubber Reclaim Co. of India Ltd., L-62, Conn. Circus, New Delhi 110001.
Sundaram Inds. Ltd., Rubber Dn., West Veli St., Madurai 625001. (Tamil Nadu).
Supreme Rubber Reclaimers Ltd., Maroor House, K. S. Rao Rd., Mangalore 575001.

RUBBER ROLLERS

Akron Rubber Ind., 134, Old Hanuman Lane, Bombay 400002.
Basant Rubber Factory Ltd., Basant Court, Opp. Sion Rly. Stn., Bombay 400022.
Bengal Belting Works Ltd., 2, BBD Bagh (E), Calcutta 700001.
Bengal Waterproof Works (1940) Ltd., 41, Shakespeare Sarani, Calcutta 700017.
Bombay Rubber Works Pvt. Ltd., Saki-Vihar Rd., Bombay 400072.
Gujarat Rubber Works Ltd., Pratapnagar, Vadodara 390005.
Hindustan Rubber Works, 402, Cadell Rd., Bombay 400025.
Inarco Ltd., 1-A, Foreshore Rd., Bombay 400021.
Industrial Linings, 547, Kalbadevi Rd., Bombay 400002.
Korula Rubber Co. Pvt. Ltd., 249-B, Worli, Bombay 400018.
Lathia Rubber Manufg. Co. Ltd., Saki Naka, Bombay 400072.
Madras Ind. Linings Ltd., 8, Gilchrist Ave., Madras 600031.

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PHONE : 339225

GROUP

OFFICE : 91 B SHERIF DEVJI ST. (CHAKLA ST), FIRST FLOOR BOMBAY 400 003.
FACTORY : AMAR MAHAL, OPP. HIGHWAY JN. GHATKOPAR MAHUL ROAD, CHEMBUR, BOMBAY 400 089.

Phoenix India Rubber Products, 64, Mohamedali Rd., Bombay 400003.

Rawal Rubber Works Pvt. Ltd., Sukh Sagar, Hughes Rd., Bombay 400007.

Rubber Regenerating & Processing Co., 39-2, Canal West Rd., Calcutta 700004.

Swastik Rubber Products Ltd., Kirkee, Pune 411003.

T. Maneklal Mfg. Co. Ltd., Vaswani Mansion, D. Vachha Rd., Bombay 400020.

United India Rubber Works, Lal Darwaja, Surat 395001.

RUBBER SHEETS

Associated Rubber Ind. Ltd., Gogo Rd., Bhavnagar 364001.

Associated Rubber & Plastic Works, 1, M. M. Ghosh Rd., Calcutta 700028.

Bhor Ind. Ltd., Bhor 412206. Maharashtra.

East India Rubber Works Pvt. Ltd., 161, C. R. Ave., Calcutta 700007.

F. Pestonji & Co., 94, Nagdevi St., Bombay 400003.

General Rubber Co. Pvt. Ltd., 1/10-B, A. Ali Rd., New Delhi 110002.

Hindustan Rubber Works, 402, Cadell Rd., Bombay 400025.

Hindustan Rubber Works Ltd., Ballygunge Stn. Rd., Calcutta 700019.

Kiran Enterprises, 91-B, Sherif Devji St., Bombay 400002.

Madras Ind. Linings Ltd., 8, Gilchrist Ave., Madras 600031.

McMurry Rubber Works, 5, Mission Row, Calcutta 700001.

New India Rubber Works Ltd., 34-A, D. C. Dey Rd., Calcutta 700015.

Oriental Rubber Ind. Pvt. Ltd., Agra Rd., Bhandup, Bombay 400078.

Sabarmati Rubbers, C-29, Naroda Ind. Estate, Ahmedabad 380002.

RUBBER SPORTS GOODS

Ajit Rubber Ind., Ballabhgarh 121004, Haryana.

Bata Shoe Co. Pvt. Ltd., Batanagar 743313, 24-Parganas Dist.

Beekay Rubber Ind., P. O. Rayon Mills, Amritsar

Bhattacharya Rubber Works Ltd., Jessore Rd., C 700055.

Everest Rubber Works, Kalibari Rd., Calcutta 700030

National India Rubber Works Ltd., Katni (M.P.).

Premier Rubber Mills (Bombay) Pvt. Ltd., Agra Rd., Bhandup, Bombay 400072

RUBBER TAPES

Adtapes Ltd., Darbargarh, Bhavnagar 364001.

Leukoplast (India) Pvt. Ltd., Rua S. Thome, 403001.

S. Thakore & Co., Nava Darwaja Rd., Ahmedabad

RUBBER TREAD

Dunlop India Ltd., 57-B, Free School St., Calcutta

Good Shepherd Rubber Co., Ind. Estate, 678002. Palghat Dist.

Goodyear India Ltd., Ballabhgarh 121004, Haryana.

Inchek Tyres Ltd., 19, J. L. Nehru Rd., Calcutta 700013.

Madras Rubber Factory Ltd., 175/1, Anna Salai, Madras 600002.

RUBBER TUBING

Anand Rubber & Ebonite Products, Ind. Estate, Satpura, Nasik 422001.

Cekop Rubber Ind. Pvt. Ltd., Rana Pratap Bagh, Kondwa Rd., Pune 411001.

Cosmos India Rubber Works Pvt. Ltd., 7, Homji St., Bombay 400001.

Helix Latex Ind., C-11, Model Town, Delhi 110009.

Industrial Products, 139-G, S. Vivekanand Rd., Bombay 400060.

Kantilal Chhotalal & Co., 22, B. Genu Rd., Bombay 400002.

Paul Rubber Works, 9, Ind. Estate, Faridabad 121001.

Tropical Rubber Co., 1, Barreto Lane, Calcutta 700001.

RUBBERISED COIR

Bagdi Enterprises, 301, Parekh Mkt., Opera House, Bombay 400004.

Coirfoam Inds., 14/6, Mathura Rd., Faridabad 121003. (Haryana).

Fibre Foam Pvt. Ltd., Viveknagar, Baliapatam 670010 (Cannanore Dist.), Kerala State.

Koirlap Ind. Pvt. Ltd., Mavelikara 690101, Kerala.

Rubero Fibre Pvt. Ltd., Chungom, Alleppey 688001, Kerala.

SAFETY APPLIANCES

Adigee Ind., 475, Keyatala Rd., Calcutta 700029.

Allibhai Premji Tyrewalla, 205, Bhadkamkar Marg, Bombay 400007.

B. B. Inds., 58, N. S. Rd., Calcutta 700001.

B. N. Ghoshal & Sons (Calcutta), 25B, C. R. Avenue, Calcutta 700013.

Bengal Engg. Co. Pvt. Ltd., 12, Dalhousie Sq. East, Calcutta 700001.

Daga Udyog, 41-B, Brajodulal St., Calcutta 700006.

Fida Traders, 97, Dhaboo St., Bombay 400003.

Francis Leslie & Co., Kakad Indl. Est., Room No. 140, Lady Jamshedji Rd., Mahim, Bombay 400016.

Impex Engg. & Equipment Co., 138, N. Dhuru St., Bombay 400003.

Joseph Leslie & Co., 11/12, Apeejay House, 130, Apollo St., Bombay 400023.

Kiran Trading Co., 81, V. Savarkar Mrg., Bombay 400016.

Mehta Sanghvi & Co., 21A, Canning St., Calcutta 700001.

Metasafe Trading Corp., 65, Apollo St., Bombay 400001.

Mines Service Corpn., Safety House, Ushagram, Asansol 713302. (W. Bengal).

Mohan Indl. Service, 17, Bhavana, Savarkar Mrg., Prabhadevi, Bombay 400025.

Nityanand Leather Works, Shankar Gaikwad Chawl No. 4, Dharavi, Bombay 400017.

Pradeep Safety Pvt. Ltd., Jamnabai Mansion, 472, Sardar Patel Rd., Bombay 400004.

Safety Services, 118-119, New B.P.T. Rd., Wadala (E), Bombay 400037.

Sparkweld, 350/352, Grant Rd., Bombay 400007.

Technoperfect India, 11, Pollock St., Calcutta 700001.

Usha Leather Inds., Pila Bungalow, Dharavi, Bombay 400017.

Weldman Gloves & Inds., 30, Sir H. Goenka St., Calcutta 700070.

SAFETY MATCHES

Golden Match Industries, Bodipet Rd., Gudiyattam 632601.

Gudiyattam Match Industries, Santhapet, Gudiyattam 632601.

Hind Matches Ltd., P. Box 38, Sivakasi 626123.

Meenakshi Match Factory, Post Box No. 2, Lakshmipuram, Kovilpatti 627715.

Modern Match Industries, Santhapet, Gudiyattam 632602.

Shri Mahila Griha Udyog Lijjat Pappad (Match. Ind. Dn.), Near Maruti Temple, Agra Rd., Dahanu 401601. (Maharashtra).

Western India Match Co. Ltd., Indian Mercantile Chambers, Nicol Rd., Ballard Estate, Bombay 400038.

SANITARYWARES & FITTINGS

Delhi

Civil Engg. Co., Arya Samaj Rd., Karol Bagh, New Delhi 110005.

Develop Pump Ind., F.2/27, Krishna Nagar, Delhi 110051.

Gayfield & Co., Chawri Bazar, Delhi 110006.

Hind Trdg. & Manufg. Co., Gali Barna, Bara Tooti, Sadar Bazar, Delhi 110006.

Kasting Pvt. Ltd., 31, Karnal Rd., Delhi 110038.

Naveen Ind., C-82, Maya Puri, New Delhi 110064.

Parekh & Co., Chawri Bazar, Delhi 110006.

Sanitary Goods Mfrs., 27, Shivaji Marg, New Delhi 110015,

Somko Metal Inds. (Regd.), 3513, Gali Bajrang Bali, Chawri Bazar, Delhi 110006.

Vijay Metal Ind., 3684, Chawri Bazar, Charkhewalan. Delhi 110006.

Gujarat

Khodiyar Pottery Works Ltd., Sihor 364240.

Haryana

A. N. Bhaskar Sons, Amar Nagar, Faridabad 121003.

Hindustan Sanitary Wares Ind. Ltd., Bahadurgarh 124507.

Metal India Corpn., Plot 345, Sector 24, Faridabad 121001.

Karnataka

Metro Malleable Mfrs. Pvt. Ltd., S. J. Park Rd., Bangalore 560002.

Mysore Stoneware Pipes & Potteries Ltd., 80, Sixth Cross Rd., Gandhinagar, Bangalore 560009.

Maharashtra

Amar Brass & Iron Works, 159, S. G. Barve Marg, Bombay 400029.

Anand Machinery Pvt. Ltd., 3 B, Chinchwad Ind. Area, Pune 411019.

Bilmat Sanitary Fittings, 73, N. Master Rd., Bombay 400023.

Punjab

Ambika Metal Inds., 2116, Sector 15-C, Chandigarh 160016.

Aminchand Bholanath, Tanda Rd., Jullundur 144001.

Batala Engg. Co. Ltd., Grand Trunk Rd., Batala 143505.

SANITARYWARES & FITTINGS

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Tamil Nadu

E.I.D. Parry Ltd., Dare House, Madras 600001.
Hargo Ind., 2A, Ind. Estate, Madras 600058.
Madras Enamel Works Ltd., 65, Sydenham Rd., Madras 600003.
Neiveli Ceramics & Refractories Ltd., Vadalur 607303, S. Arcot Dist.
Regal Products Pvt. Ltd., 186, Royapettah High Rd., Madras 600014.

Uttar Pradesh

Sardar Inds., Meerut Rd., Hapur 245101.

West Bengal

Agarwal Hardware Works Pvt. Ltd., 3-A, Shakespeare Sarani, Calcutta 700071.
Ajanta Fibreglass Inds., 24, Brabourne Rd., Calcutta 700001.
Allied Agencies (India), 10, N. Chunder St., Calcutta 700012.
Bengal Machinery Co. Pvt. Ltd., 9A, New Tangra Rd., Calcutta 700046.
Pedlars Intnl., 5, Clive Row, Calcutta 700001.
Soma Plumbing Fixtures Ltd., 2, Red Cross Place, Calcutta 700001.
Thakurdas Sureka Iron Foundry Ltd., 24, Goshala Rd., Howrah 711101.
Viking Corpn., 45, Lenin Saranee, Calcutta 700013.

SCIENTIFIC INSTRUMENTS

(See Instruments, Scientific in this list.)

SCOOTERS, SCOOTERETTES, MOPEDS, TWO AND THREE WHEELERS & ACCESSORIES

Andhra Pradesh Scooters Ltd., 18-A, Indl. Development Area, Pantancherlu 502320. (*Vijai Pushpak* Scooters).
Aravalli Svachalit Vahan Ltd., 8, Central East Block, Alwar 301001. (*Aravali* Scooters).
Automobile Products of India Ltd., LBS Mrg., Bhandup, Bombay 400078. (*Lambretta* Scooters).
Bajaj Auto Ltd., Bombay–Poona Rd., Pune 411035. (*Bajaj* Scooters).
Bajaj Tempo Ltd., Bombay–Poona Rd., Pune 411035. (*Hanseat* and *Viking* Tempos ; *Matador* 4-seaters).
Bihar Scooters, P.O. Fatwah 803201, Patna Dist. (*Digvijay* Scooters).
Electromobiles (India) Ltd., 48, Kasturba Rd., Bangalore 560001.
Enfield (India) Ltd., Madras 600019. (*Enfield, Bullet* and *Crusader* Motorcycles).
Escorts Ltd., Motorcycle & Scooter Divn., 19/6, Mathura Rd., Faridabad 121001. (*Rajdoot* Scooters).
Globe Accessories Pvt. Ltd., Shanti Nagar Indl. Estate, Vakola, Santa Cruz (East), Bombay 400055.
Hindustan Electro Metallics, Nimmco Tiles Compd., Lalbaug, Bombay 400012. (*Hem* side-car).
Ideal Jawa (India) Pvt. Ltd., Indl. Estate, Mysore 570002. (*Yezdi* Motorcycles).
Identics Ltd., Thodupuzha 685584. (Kerala State).
India Automotive Ltd., Tatanagar 831002. (*Hil*
Mopeds).
Karnataka Scooters, 5, Crescent Rd., Bangalore 560001.
Kinetic Engg. Pvt. Ltd., Pune. (*Luna* Mopeds).
Kirloskar Ghatge Patil Auto Ltd., R.S. No. 307A, Uchgaon (Kolhapur Dist.). (*Laxmi* Mopeds).
Maharashtra Scooters Ltd., C/o Bajaj Auto Ltd., Pune 411035. (*Priya* Scooters).
Mopeds India Ltd., Tirupathi 517501 (A.P.). (*S*
Mopeds).
Perfect Ind., Modi Mansion, 37/2C, Shankerset Rd., Pune 411009.
Punjab Scooters Ltd., Nabha 147201.
Ramon Engg. Ltd., Ramon House, 169, Backbay Reclamation, Bombay 400020. (*Ramona* Scooterettes).
Roplas India Ltd., Pimpri, Pune 411018. (*Roplas Companion* Scooters).
Saund Zweirad Union India Pvt. Ltd., Gwalior 474001. (*Vicky* Mopeds ; *Saund* Motorcycles).
Scooters Kerala Ltd., P.O. Vadackal, Alleppey 688003. (*Digvijay* Scooters ; *Vijay Deluxe* Scooters ; *L*
3-wheelers).
Southern Scooters Pvt. Ltd., Madras 600018.
Sunrise Auto Inds. Ltd., 25/26, Indl. Estate, Tumkur Rd., Bangalore 560022. (*Badal* 3-wheelers).
Tamil Nadu Mopeds Ltd., Indl. Estate, Guindy, Madras 600032. (*Tausi* Mopeds).
West Bengal Indl. Development Corpn. Ltd., 23A, N. Subhas Rd., Calcutta 700001.
West Bengal Scooters Ltd., 227/1, Acharya J. Bose Rd., Calcutta 700020. (*Digvijay* Scooters).

SCREWS

Anupam Inds., 116, Satguru Nanik Ind. Estate, Gore
gaon East, Bombay 400063.
Arul Agencies, 48, Linghi Chetty St., Madras 600001.
Ashok Industrial Traders, 50, Bibijan St., Bombay

Associated Mfrs. (India), 40, Strand Rd., R. No. 9, Calcutta 700001.

Fit Tight Nuts & Bolts Ltd., M. Vissanji Rd., Bombay 400069.

Ishwar Auto Inds., 35D, Govt. Ind. Estate, Kandivli, Bombay 400067.

Manekji Clips Mfg. Co., 99/100, L. B. S. Mrg., Bhandup, Bombay 400078.

Microw Screw Mfg. Co., Purnima Bldg., W. S. Rd., Dahisar East, Bombay 400068.

Perfect Fasteners Pvt. Ltd., 1/43, DLF Indl. Area, Faridabad 121003, (Haryana).

Precision Fasteners Ltd., 17, Cooperage Rd., Bombay 400039.

Ranjit Rivet Ind., 62, B. T. Compd., Malad West, Bombay 400064.

Universal Screw Factory Pvt. Ltd., G.T. Rd., Chheharta 143105 (Punjab).

Virani Fasteners & Bolts Pvt. Ltd., Aji Ind. Area, Rajkot 360003.

SEALS

Sealol Hindustan Ltd., 27-28-29, Shanti Kunj, Sadhu Vaswani Rd., Pune 411001.

SEEDS

Maharashtra Hybrid Seeds Co. Ltd., Plot No. B-4, Ind. Estate, Jalna 431203, Maharashtra.

Nimbkar Seeds & Agricultural Devpt. Co. Pvt. Ltd., Satara 415001, Maharashtra.

Palekar & Co., Sitaram Bldg., Near Crawford Market, Bombay 400001.

SEWING MACHINES

Andhra Pradesh

Hyderabad Engg. Industries, Balanagar Township, Hyderabad 500037.

National Sewing Machine Co., 15-4-51, Gowliguda Chaman, Hyderabad 500012.

Sadanand Engg. Works, 19/1, Ind. Area, Azamabad, Hyderabad 500020.

Delhi

Delhi Sewing Machine Co. Pvt. Ltd., Qabul Nagar, Shahdara, Delhi 110032.

Jukie (India) Pvt. Ltd., B-72, Naraina Indl. Area, Phase II, New Delhi 110028.

Leader Sewing Machine Co., A/85/2, Indl. Area, Phase I, Naraina, New Delhi 110028.

Mahabir Export & Import Co. Pvt. Ltd., G.T. Rd., Shahdara, Delhi 110032.

Peter Engg. Co., 29, Beadonpura, Karol Bagh, New Delhi 110005.

Rama Sewing Machine Co., 4168, Nai Sarak, Delhi 110006.

Sansar Machines Ltd., G. T. Rd., Shahdara, Delhi 110032.

Gujarat

Vijay Sewing Machines Co., Ashapuri Rd., Navsari 396445.

Haryana

British Machinery Supplies Co., 17A, New Ind. Township, Faridabad 121001.

Maharashtra

Anson (India), 605, Girgaum Rd., Bombay 400002.

Bharucha Sewing Machine Co., 238, S. V. Patel Rd., Opp. Alankar Cinema, Bombay 400004.

Imperial Sewing Machine Co., 282, Sardar V. P. Rd. Bombay 400004.

Singer Sewing Machine Co., Singer Bldg., 207, Dr. D. Naoroji Rd., Bombay 400001.

Punjab

Amar Electric & Mechanical Engg. Works, G.T. Rd., Millerganj, Ludhiana 141001.

C. R. Aulack & Co., 426, Ind. Area, G.T. Rd., Ludhiana 141001.

Gobind Ram & Sons, Millerganj, Ludhiana 141001.

Panesar Mechanical Works Pvt. Ltd., Ind. Area, Gill Rd., Ludhiana 141001.

Pt. Ramji Das Harbans Lal (Regd.), Sewing Machine Works, Bastti Pathanam, Patiala 147001.

Rita Mechanical Works, Ind. Area, Ludhiana 141001.

Tamil Nadu

British Machinery Supplies Co., 136, Mount Rd., Madras 600006.

Paul Bros. & Co., 2/130, Mount Rd., Thousand Lights, Madras 600006.

Sharda Machinery Corpn., G.S. Trunk Rd., Chromepet, Madras 600044.

West Bengal

Jay Engg. Works Ltd., 183-A.P., Anwar Shah Rd., Calcutta 700031.

Lotus Ind., 15, Stark Rd., Liluah 711204. Howrah Dist.

Mahinder Singh Ragbir Singh, 55/103, Canning St., Calcutta 700001.

SEWING THREAD

Alexander Thread Co., P. Box No. 5, Mettur Dam 636402. Salem Dist. (T. Nadu).

Bharmal Thread Works, 10, Saifee Jubilee St., Bombay 400003.

Dawn Mills Co. Ltd., Lower Parel, Bombay 400013.

India Ball Thread Co. Pvt. Ltd., 2/C, J. Mullick Rd., Calcutta 700006.

Ishwardas & Co., 2, Sutar Chawl, Bombay 400002.

Lukmanji Musaji Sutarwala, 41, Nagdevi St., Bombay 400003.

Madura Coats Ltd., 81, Paltan Rd., Bombay 400001.

Modi Thread Mills, Modinagar 201204, U.P.

Punjab Soot Gola Factory, Sadar Bazar, Delhi 110006.

SILICA & SILICATES

Allied Silicate Inds., RIC House, Off Tank Rd., Bhandup, Bombay 400078.

Silicates and Catalysts, 7, Indl. Estate, M.N.R. Engg. Coll., Allahabad 211004.

Sil-Tech. Products, 52-4, Ind. Colony, Naini, Allahabad 211008.

SILK & ART SILK MILLS

(Mills having more than 24 power-looms)

Andhra Pradesh

Sirsilk Ltd., Sirpur Kagaznagar 504296.

Delhi

D. C. M. Silk Mills, Najafgarh Rd., New Delhi 110015.

Gujarat

Anil Textile Mill, Nirwanbaba's Akhada, Begumpura, Surat 395001.

Artex Manufg. Co., New Cotton Mills, No. 1 Comp., Outside Rajpur Gate, Kankaria Rd., Ahmedabad 380001.

Arun Silk Weaving Factory, Salabatpura, Begumwadi, Surat 395001.

Arun Textiles, Suryapur Mills Comp., Warchha Rd., Surat 395003.

Crown Silk & Rayon Mills Pvt. Ltd., Sobhraj Park, 208, Nicol Rd., Ahmedabad 380001.

Dhamanwala Silk Mills, Udhana Rd., Khatodare, Surat 395002.

Dhanamal Silk Mills, Varachha Rd., Surat 395003.

Diamond Silk & Rayon Mills, Nicol Rd., Ahmedabad 380002.

Harihar Silk Mills, Vasta Devdi Rd., Surat 395003.

Master Silk Mills Ltd., Bhavnagar 364001.

Mehta Silk Mills Pvt. Ltd., P.B. 32, Bilimora 396321.

Nalini Silk Mills, Desai Sheri, Sagrampura, Surat 395001.

New Laxminarayan Mills, Madhobhai Comp., Railwaypura, Ahmedabad 380002.

Prabhat Silk & Cotton Mills Co. Ltd., Bella Mills Compound, Surat 395001.

Prabhu Silk Mills, Vasta Devdi, Surat 395003.

Shree Yamuna Mills Co. Ltd., P.B. 38, Vadodara 390001.

Standard Silk Mills, Lal Darwaja, V. Devdi Rd., Surat 395003.

United Textile Manufg. Co., Chevli St., Begumpura, Surat 395001.

Vishwanath Weaving Factory, Nirvanbaba's Akhada, Begumpura, Surat 395001.

Wintex Mills, Lal Darwaja, Station Rd., Surat 395001.

Zenith Silk Mills, Lal Darwaja, Vadtal Devdi Rd., Surat 395003.

Madhya Pradesh

Gwalior Rayon Silk Manufg. (Weaving) Co. Ltd., P.O. Birlanagar, Gwalior 474004.

Maharashtra

Ahuja Silk Mills, 83, Vithalwadi, Bombay 400002.

Alliance Silk Mills, Atlas Mills Comp., Reay Rd., Bombay 400010.

Allied Silk Mills, Navapada, Agra Rd., Thane 400601.

Amar Silk Mills, New Islam Mills Comp., Currey Rd., Bombay 400013.

Amar Velvet Manufacturers, C/o Chhaganlal Kasturchand, Lalsingh Bldg., Kalbadevi, Bombay 400002.

Ambika Silk Mills Co. Ltd., Bapat Mrg., Bombay 400013.

Anant Silk Industries, 53, Chhipi Chawl, Bombay 400002.

Anis Silk Mills, C/o Manish Trading Corpn., 305, Shri Krishna Niwas, Yusuf Meheralli Rd., Bombay 400003.

Asher Silk Mills, Paranjape 'B' Scheme, Soneri Rd., V. Parle (E), Bombay 400057.

Ashok Silk Mills, Agra Rd., Near Dargah, Ghatkopar, Bombay 400077.

Asian Rayon Mills, New Islam Mills Comp., Currey Rd., Bombay 400013.

B. M. K. Industries Ltd., Kalina Rd., Bombay 400070.

Bhaichand Textile Mills, Agra Rd., Bhandup, Bombay 400078.

Bharat Silk Mills Ltd., Opp. Kumari Village, Agra Rd., Kurla, Bombay 400070.

Bharat Vijay Velvet & Silk Mills, Near Saphed Pool, Kurla-Andheri Rd., Kurla, Bombay 400072.

Bipin Silk Mills Pvt. Ltd., 12, Dadar Rd., Mills Comp., Dadar, Bombay 400028.

Bishen Silk Mills, Bishen Udyog Premises Co-op. Ltd., L. B. Shastri Marg, Mulund (West), 400080.

Bombay Silk Mills Pvt. Ltd., Ind. Estate, Lal Bombay 400012.

Brij Silk Industries, Khanna Ind. Estate, Andheri Rd., Saki Naka, Bombay 400072.

Cadell Weaving Mill Co. Pvt. Ltd., 211 213, Kal Rd., Bombay 400002.

Commercial Textile Factory, Chincholi, Vivekanand Malad (W), Bombay 400064.

D. V. Industries, Bhau Saheb Desai Wadi, B. Rd., Dadar, Bombay 400028.

Dhanesh Silk Mills, 32, Shroff Mansion, Princess St., Bombay 400002.

Eldee Velvet & Silk Mills, Opp. Bawalla Mosque, Rd., Parel, Bombay 400013.

Ellora Silk Mills Pvt. Ltd., Kashmira, S. Vivekanand Bhayandar 401101. Thane Dist.

Ganga Silk Mills, 110, Dr. A. Besant Rd., Worli, Bombay 400018.

Geeta Silk Mills, 26/28, Kolbhat Lane, Kalbadevi Rd., Bombay 400002.

Haren Textiles Pvt. Ltd., Opp. Check Naka, Bombay 400068.

Harit Synthetic Fabrics Pvt. Ltd., 52/54, Nakhoda St., Pydhonie, Bombay 400003.

Harshad Textile Mills Pvt. Ltd., Sadhana Rayon House Dr. D. Naoroji Rd., Bombay 400001.

Himdoot Weaving & Finishing Mills Pvt. Ltd., Saki Vihar Rd., Powai, Bombay 400072.

Hind Silk Mills Pvt. Ltd., C/o Mansukh Dyeing & Printing Mills Comp., Kanjur Village Rd., Bhandup, Bombay 400078.

Hindustan Silk Mills, C/o Ramesh Chandra & Co., Jai Niwas, 36, A. Rehman St., Bombay 400003.

J. K. Textiles, Agra Rd., Vikhroli, Bombay 400079.

Jaibharat Silk Mills, 498, Kalbadevi Rd., Bombay 400002.

Jaifabs Rayon Industries Pvt. Ltd., Shastri Marg, Bombay 400086.

Jasmine Mills Pvt. Ltd., Dharavi, Bombay 400017.

Joy Silk Mills, 625, Nariman Bldg., Near Kalbadevi Post Office, Bombay 400002.

Kailash Silk Mills, Jivan Mills Comp., Andheri-Kurla Rd., Sakinaka, Bombay 400072.

Kamala Silk Mills, 31, Silk House, Hamalwadi Corner, Girgaum Rd., Bombay 400002.

Kay-Am Textiles, 108, Cavel St., Bombay 400002.

Khanna Silk Mills Ltd., Silk House, Silk Bazar, P.B. 2174, Bombay 400002.

Kiran Silk Mills Ltd., Kasturchand Mills Comp., Dadar, Bombay 400014.

Krishna Textile Mills, Kishore Bldg., 523, Kalbadevi Rd., Bombay 400002.

Kum Kum Silk Mills, Sunder Baug Estate, Agra Kurla, Bombay 400070.

Kumar Silk Mills, 10, Vishweshwar Nagar, Aarey Goregaon East, Bombay 400063.

L. D. Weaving Industries Pvt. Ltd., Mehra Agra Rd., Vikhroli, Bombay 400079.

Liberty Silk Mills Pvt. Ltd., Bharat House, 104, St., Bombay 400023.

Mahadeo Silk Mills, 95A, Old Hanuman Lane, Bombay 400002.

Mahajan Silk Mills, 468, Kalbadevi Rd., Bombay 400002.

Mahendra Silk Mills Ltd., 105/107, Tambakanta, Bombay 400003.

Malhotra Silk Mills, Khanna Estate, 59, Saki Naka, Kurla–Andheri Rd., Bombay 400072.

Manhar Mills Ltd., Framji Petit Mills Comp., Reay Rd., Bombay 400010.

Mohanlal Silk Mills, Atlas Mills Comp., Reay Rd., Bombay 400010.

Nanikram Sobhraj Mills Ltd., 79, Karve Rd., Bombay 400020.

Narendra Silk Mills, Atlas Mills Comp., Reay Rd., Bombay 400010.

National Art Silk Mills Ltd., Old Kasturchand Premises, Dadar, Bombay 400028.

Neeru Silk Mills, Mathuradas Mills Comp., Lower Parel, Bombay 400013.

New Era Fabrics Pvt. Ltd., Mogul Lane, Mahim, Bombay 400016.

New India Rayon Mills Co. Ltd., Mathuradas Mills Comp., Lower Parel, Bombay 400013.

New Mahalaxmi Silk Mills Ltd., Mathuradas Mills Comp., Lower Parel, Bombay 400013.

New Oriental Silk Mills Pvt. Ltd., Shree Nath Bhavan, 27, Picket Rd., Cross Lane, Bombay 400002.

New Prabhat Silk Mills, Shastri Marg, Bombay 400078.

New Vinod Silk Mills Ltd., Kasturchand Mills Estate, Dadar, Bombay 400028.

Novelty Silk Mills, Dinanath Sons, Vivekanand Rd., Dahisar, Bombay 400068.

Orkay Silk Mills Pvt. Ltd., 5/C, Vulcan Insurance Bldg., Veer Nariman Rd., Bombay 400020.

Panalal Silk Mills Ltd., Atlas Mills Comp., Reay Rd., Bombay 400010.

Panchsheel Textile Industries, Ganesh Bldg., Ganesh Wadi, Bombay 400002.

Pankaj Silk Industries, Adarsh Society, Marve Rd., Malad, Bombay 400064.

Paragon Textile Mills, Globe Mills' Passage, Bombay 400013.

Paras Silk Mills, Sunder Baug, Agra Rd., Kurla (North), Bombay 400070.

Parekh Silk Mills, Paranjpe Scheme, Plot 'B', Sonari Rd., Vile Parle (East), Bombay 400057.

Podar Silks & Synthetics Ltd., Podar Chambers, Syed A. Brelvi Rd., Bombay 400001.

Prabhat Silk Mills, Maroshi Rd., Marol, Bombay 400059.

Pratap Silk Mills, Paranjpe's Scheme B, Vile Parle (East), Bombay 400057.

Premco Silk Industries, A–15/16, M.I.D.C., Marol, Andheri (E), Bombay 400059.

Radha Silk Mills, 30, Parsi Panchayat Rd., Andheri West, Bombay 400059.

Rajkamal Silk Mills, 34/42, Nesbit Rd., Mazagon, Bombay 400010.

Rajratna Silk Mills, 20, Navroji Seth St., Thakurdwar, Bombay 400002.

Ramkrishna Silk Mills, Dr. A. Besant Rd., Worli, Bombay 400018.

Rayon Textiles Manufg. Co., 771, Mogul Lane, Mahim, Bombay 400016.

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S. L. Kothari.

General Manager: M. N. Bajaj, B.A., B.Com.

Reliance Textile Industries Pvt., Ltd., Court House, Tilak Marg, Dhobi Talao, Bombay 400002.

Ruby Mills Ltd., Lady Jamshedji Rd., Dadar, Bombay 400028.

S. A. R. Silk Industries, Sonal Indl. Estate, Saki Vihar Rd., Bombay 400072.

Sadhana Textile Mills Pvt. Ltd., Sadhana Rayon House, Dr. D. Naoroji Rd. Bombay 400001.

Samarth Velvet Manufg. Co., Kanjur Village Rd., Bhandup, Bombay 400078.

Samraat Silk Mills, L. B. Shastri Marg, Vikhroli, Bombay 400079.

Saraswati Silk Mill, Old Anjirwadi, 34, Champshi Rd., Mazagaon, Bombay 400010.

Saroj Silk Mills, Atlas Mill Compound, Reay Rd., Bombay 400010.

Sarwodaya Silk Mills, Agra Rd., Old Kurla, Bombay 400070.

Satish Textiles Pvt. Ltd., 56, Champa Galli, Opp. M. J. Market, Bombay 400002.

Shree Central Silk Mills, 56/58, Agra Rd., Kurla, Bombay 400070.

Shri Shanti Textiles Pvt. Ltd., Agra Rd., Ghatkopar, Bombay 400077.

Silk Industries (I.), Mehra Ind. Comp., Kurla-Andheri Rd., Bombay 400072.

Subhash Silk Mills, Kurla-Andheri Rd., Sakinaka, Bombay 400072.

Usha Prints (I.) Pvt. Ltd., Mehra Estate, Agra Rd., Vikhroli, Bombay 400079.

V. R. Textile Industries, Bhiwandi. 421302, Thane Dist

Uttar Pradesh

Modi Rayon & Silk Mills, Modinagar 201204.

Shree Silk Mills, C-30/35/D-1, Maldehiya, Varanasi 221001.

West Bengal

Calcutta Silk Manufg. Co., 135-A, B. R. Basu Rd., Calcutta 700001.

Eastern Silk Manufg. Co. Pvt. Ltd., 19, R. N. Mukherjee Rd., Calcutta 700001.

Sarat Textiles Ltd., 9, B. Trunk Rd., Calcutta 700002.

Shri Ram Silk Manufg. Co., Rishra 712248. Hooghly Dist.

SILOS

Shirke-Prive-Reimbert Silos Pvt. Ltd., 72-76, Mundhwa, Pune 411036.

SIRENS & HOOTERS

Calcutta Fan Works Pvt. Ltd., 30, Chowringhee Rd., Calcutta 700016.

G. R. Electrical Ind., 110, Ripon St., Calcutta 700016.

Jetha Drums & Containers Pvt. Ltd., Opp. Byculla Goods Depot, Bombay 400027.

Kheraj Electrical Inds., 32, Tavawala Bldg., 2nd Floor, Lohar Chawl, Bombay 400002.

Ladhan Electrical & Manufg. Co., 18, Rabindra Sarani, Calcutta 700001.

Lightcraft Corpn., 14, Lohar Chawl, Bombay 400002.

Naik Bros., 358, Mint St., Madras 600001.

Veejay's Trading Corporation, Ahmed Bldg., 49/51, Lohar Chawl, Bombay 400002.

Vijay Lakshmi Electric Co., Sitaram Bldg., 37, Dr. D. Naoroji Rd., Bombay 400001.

SLOTTED ANGLES

Adequate Steel Fabricators, 1975, Bank St., Karol B
New Delhi 110005.

Amsons Industries, 211/13, Kalbadevi Rd., Bomba
400002.

Crescent Metal Pressing Works, 17-C, Old Anjirwa
Mount Rd., Mazgaon, Bombay 400010.

Divakaran Storage & Handling Systems Pvt. Ltd., P
Box 17330, Bhandup, Bombay 400078.

Fit Right Slotted Angles Mfg. Co., Eastern Chamb
Poona St., Bombay 400009.

Fix-O-Well, Ghanshyam Ind. Estate, Veera Desai R
Andheri West, Bombay 400058.

Fleet Fasteners Pvt. Ltd., Delstar, 9-9A, S. Patkar M
Bombay 400036.

Gem Steel Products Pvt. Ltd., 8-A, Kashi House, C
Place, New Delhi 110001.

Intermark, 211/213, Kalbadevi Rd., Bombay 40000

Killick Slotted Angles Ltd., Kurla-Powai Rd., Bomb
400072.

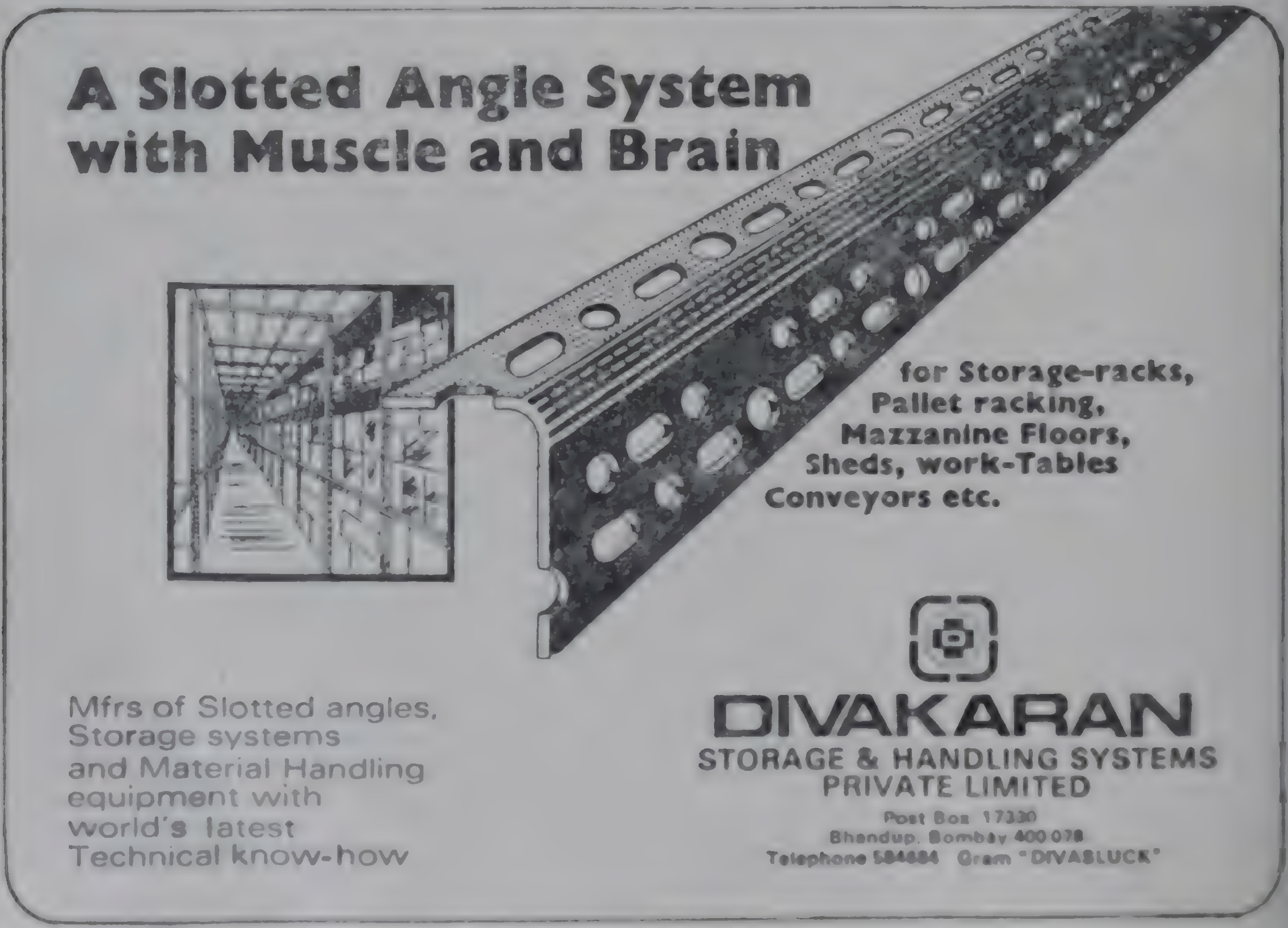
MEK Engg. Works Pvt. Ltd., 3, Broach St., Bomb
400009.

Metalware Inds., C-8, Ind. Estate, Moula Ali, Hyderab
500040.

Metrex Pvt. Ltd., Sunder Estate, Near Kamani, Ku
Bombay 400070.

Modern Inds., No. 66, 3rd Cross, Robertson Block, Ra
chandrapuram, Bangalore 560021.

Panama Sales (India), 159, Sardar Patrappa Rd., Ban
lore 560002.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Sarada Agencies, 1/155, Mount Rd., Madras 600002.
Simplex Udyog, 11, Indl. Estate, Bhilai 490001 (M.P.).
Steel Products Pvt. Ltd., 8-A, Kashi House, Connaught Place, New Delhi 110001.
Trigon Metal Sections, 4/5, Indl. Estate, Gorwa Rd., Vadodara 390003.
Vinar Systems Pvt. Ltd., 59, Apollo St., Bombay 400023.
Well-Set Slotted Angles, 542, Kalbadevi Rd., Bombay 400002.

SOAP & TOILETRIES

Andhra Pradesh

Foods, Fats & Fertilisers Ltd., Tadepalligudem 534101.
Rama Krishna Soap Factory, Old Bhoiguda, Secunderabad 500003.

Bihar

Anand Chemical Ind., Kachisarai, Muzaffarpur 842001.

Delhi

D. C. M. Chemical Works, Najafgarh Rd., New Delhi 110015.
Universal Perfumery Co., 5643, Gandhi Market, Sadar Bazar, Delhi 110006.

Karnataka

Desi Soap Works, Sampangi Tank Rd., Bangalore 560002.
Mallya Soap Works, Post Box No. 709, Mangalore 575003.
Manyam & Co., Raja Snow Bldg., Seshadripuram, Bangalore 560020.
Margarine & Refined Oils Co. Pvt. Ltd., 125/1, Mysore Rd., Bangalore 560026.
Miltan Chemeplas Corpn., 17/18, Small-Scale Ind. Area, Rajajinagar, Bangalore 560010.

Kerala

Diamond Soap Works, Palace Rd., Cochin 682002.
S. V. Products, Irinjalakuda 680121.

Maharashtra

Agra Soap & Chemical Works, Mount Rd., Bombay 400010.
Balsara Hygiene Products, 43, Nagindas Master Rd., Bombay 400023.
Bombay Soap Factory, Ahmed Oomer St., Two Tanks, Bombay 400008.
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Colgate-Palmolive (I.) Pvt. Ltd., Steelcrete House, Dinshaw Vachha Rd., Bombay 400020.
D. D. Shah & Co., Damodar Bldg., 105, Princess St., Bombay 400002.
Devka Chemical Works, 322-27, New Mill Rd., Kurla West, Bombay 400070.
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Poona Soap Factory, 129, Bhavani Peth, Pune 411002.
S. H. Kelkar & Co. Pvt. Ltd., L. B. Shastri Marg, Mulund, Bombay 400080.
Swastik Oil Mills Ltd., 13, W. Hirachand Marg, Bombay 400038.
Stepan Chemicals Ltd., Liberty Bldg., Sir Vithaldas Thakersey Marg, Bombay 400020.
Tata Oil Mills Co. Ltd., 24, Homi Mody St., Bombay 400023.
Vivek Oil & Soap Inds., A-1, Sidhpur Ind. Co-op. Estate Ltd., L.B.S. Mrg., Bombay 400077.

Tamil Nadu

Cholayil Pharmaceuticals, 1, Palayakara St., Madras 600023.
Ganga Works, Lattice Bridge Rd., Adyar, Madras 600020.
Madras Vanaspati Ltd., 86, S. N. Chetty St., 600013.
Veto Co., 16, Jones St., Madras 600001.

Uttar Pradesh

Amrit Banaspati Co. Ltd., Amritnagar, Ghaziabad 2
Modi Soap Works, Modinagar 201204.
Prag Vanaspati Products, Aligarh 202001.

West Bengal

Asiatic Soap Co., 8, Dalhousie Sq. East, Calcutta 700
Bangaluxmi Soap Works, 7, Chowringhee Rd., Calcut 700013.
Bengal Chemical & Pharmaceutical Works Ltd., 6, G. Ave., Calcutta 700013.
Calcutta Chemical Co. Ltd., 35, Panditia Rd., Calcut 700029.
Calcutta Soap Works, 'Calsopark', Tiljala 700039. 2 Parganas Dist.
Himani Pvt. Ltd., 3, Khelat Babu Lane, Calcutta 700
Hindustan Development Corpn. Ltd., Hindu Fam Bldgs., 27, Sir R. N. Mukherjee Rd., Calcutta 700001.
Howrah Chemical Co., 53/12/2, B. B. Bose R (Ramkristopur), Howrah 711101.
John Paterson & Co. (I.) Ltd., 96, Garden Reach R Calcutta 700023.
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Model Soap Co., Mehta Bldg., 55, Canning St., Calcut 700001.
Reckitt & Coleman of India Ltd., 41, Chowringhe Calcutta 700016.
Sisir Soap Works, 12/1, Jessore Rd., Calcutta 700028.
Swaika Vanaspati Products Ltd., P.N.B. House, 18 Brabourne Rd., Calcutta 700001.
Vegetable Products Ltd., 1 & 2, Old Court House Corne Calcutta 700001.

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Bajaj Electronics, 323, Unique Ind. Estate, Off V. Savar Marg, Bombay 400025.
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Alfa Sports, Metro House, Bombay [illegible]
Azad Rubber Works, Malad West, Bombay [illegible]
K. L. Malhotra Bros., WX 83, Basti Nau, J 144001.
Lightway Sports Co., 199, Mount Rd., Madras [illegible]
Mahavir Rubber Inds., S-132, Indl. Area, J 144001.
Mag & Co., 77, G.P. Rd., Madras 600002.

Pioneer Sports Works Pvt. Ltd., 292, Tilak Mrg., Dhobitalao, Bombay 400002.

SPRAYERS & SPRAY GUNS

American Spring & Pressing Works Pvt. Ltd., Marve Rd., Malad, Bombay 400064.

Manik Metals & Trdg. Co. Pvt. Ltd., 124A, Jolly Maker Chamber No. 2, Nariman Point, Bombay 400021.

Sigma Steel Inds. (Regd.), A–2, Indl. Estate, Ludhiana 141003.

Statfield Equipments Pvt. Ltd., 132/8, Ganeshkhind Rd., Pune 411007.

Trinity Metal Ind., A-5, Coop. Ind. Estates Ltd., Balanager, Hyderabad 500037.

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Indian Leaf Spring Mfg. Co. Pvt. Ltd., 62, M. G. Rd., Secunderabad 500003.

Rockson Springs (India), C-27, Indl. Estate, Sanatnagar, Hyderabad 500018.

Torison Products, Uppal Rd., Hyderabad 500007.

Delhi

Ganesons Machinery Corpn., A-25, Indl. Area, Naraina, New Delhi 110028.

Hindustan Spring Manufg. Co., 3740, Gali Hakiman, H. Qazi, Delhi 110006.

Manasmann International Pvt. Ltd., 2730, Kashmere Gate, Delhi 110006.

Murarka Engg. Works, 28/37, Najafgarh Rd., New Delhi 110015.

Spring Masters Pvt. Ltd., 8707, Shidipura, New Delhi 110005.

Springs India, A-52, Okhla Indl. Area, Phase II, New Delhi 110020.

Gujarat

Ideal Sheet Metal Stamping & Pressing Pvt. Ltd., Kalidas Mills Compound, Gomtipur, Ahmedabad 350021.

Rajkot Spring Works, Lilavati Chambers, Dhebarbhai Rd., Rajkot 360001.

Sarang Spring Mfg. Co., Plot 34, Makarpura Indl. Estate, Vadodara 390010.

Karnataka

Canara Workshop Ltd., Kodialbail, Mangalore 575003.

Stumpp, Schuele & Somappa Pvt. Ltd., P. O. Box 78, Bangalore 560001.

Yoshama & Co. Pvt. Ltd., 33-5, Ind. Area, Rajaji Nagar, Bangalore 560010.

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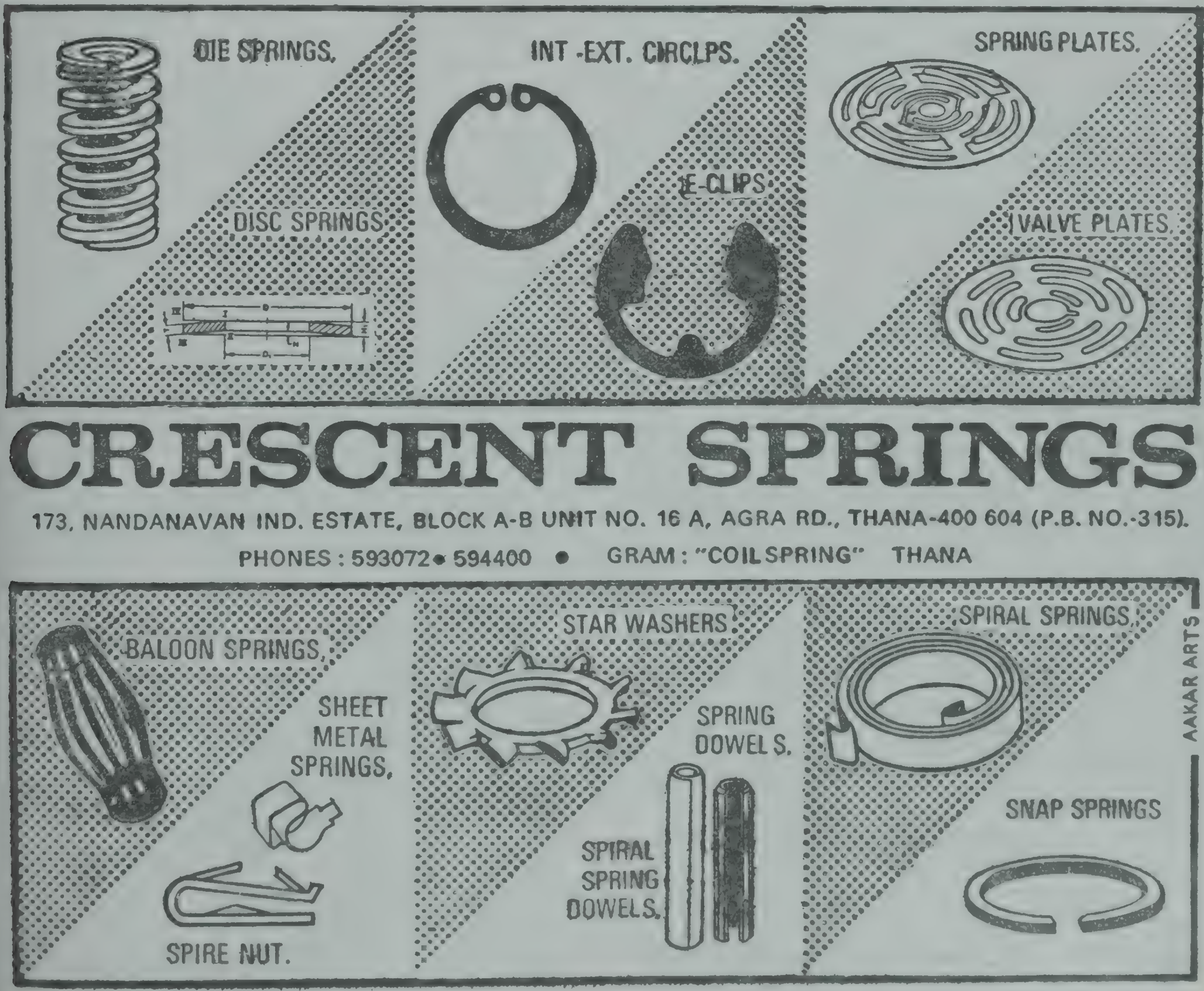
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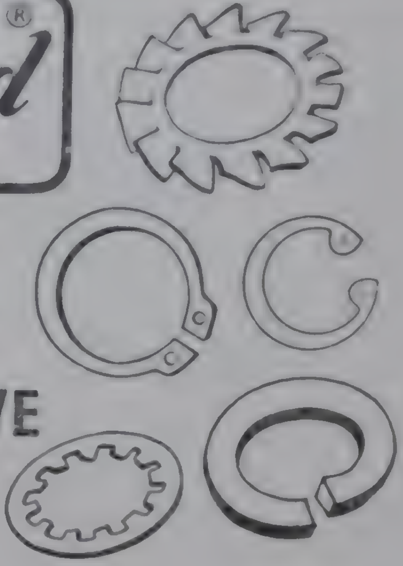

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Bharat Spring Pvt. Ltd., 37, Reay Rd., Cotton Green, Bombay 400033.

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Calcutta Spring Works, 6th Kharwa Galli, Kumbharwada Ln., Bombay 400004.

Cosmos Industries, 2/2, Sainath Indl. Estate, Off Aarey Rd., Goregaon (East), Bombay 400063.

Crescent Engg., Narayan Nagar, Agra Rd., Ghatkopar, Bombay 400077.

Crescent Springs, Nandanvan Ind. Estate, Thane 400604.

Devidayal Electronics & Wires Ltd., Pokhran Valley, P. B. No. 39, Thane 400604.

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Fairfield Manufg. Co., Aman Chambers, 113, M. Parmanand Marg, Bombay 400004.

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Great Western Engg. Works, Sea View, 1st Pasta Lane, Colaba, Bombay 400005.

Harry Inds., 209, Sati Ind. Estate, I. B. Patel Rd., Goregaon West, Bombay 400063.

Imanes Pvt. Ltd., 94, S. Vivekanand Rd., Irla, Bombay 400056.

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Indo-Spring Inds., Akash Deep, French Bridge, Bombay 400007.

Industrial Spares Co., Dada Manzil, 67-69, Mohamedali Rd., Bombay 400003.

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International Industrial Springs, 238, Nandanvan Indl. Estate, Block A-B, Unit 14A, Thane 400604.

Kemen Springs Pvt. Ltd., Harilela House, Opp. G.P.O., Bombay 400001.

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Modern Spring Works, 43, Khandia St., Nr. Two Tanks, Bombay 400008.

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Rainbow Ind., 94, S. Vivekanand Rd., Bombay 400056.
Shree Shakti Iron Works, 54, Sutar Chawl, Bombay 400002.
Spring & Auto Corpn., 431, Bhadkamkar Marg, Bombay 400004.
Standard Spring & Metal Pressing Works, Opp. Indian Oxygen Ltd., Ghatkopar, Bombay 400086.
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Swastik Industrial Works, 122, N. Dhuru St., Bombay 400003.
Union Mfg. Co., UMC Estate, Chakala Rd., Andheri (E), Bombay 400069.
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Spring (Rajasthan) Manufg. Co., Tank Rd., Jaipur 302004.

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Southern Automatic Ind. Pvt. Ltd., Super B-2, Indl. Estate, Guindy, Madras 600032.
South India Spring Mfrs., 36, Patel Rd., Coimbatore 641009.

Uttar Pradesh

Coiltech (India) Pvt. Ltd., 13/391B, Civil Lines, Kanpur 208001.
Lallco India Pvt. Ltd., Opp. Govt. Inter Coll., Meerut 250001.
Nanda Brush & Steel Spring Manufg. Co., Railway Rd., Prempuri, Meerut 250002.
R. J. Indl. Corpn., 50, Ambar Talaya, Roorkee 247667.
Springs India Ltd., 46/1, Site 4, Indl. Area, Sahibabad, Ghaziabad 201005.

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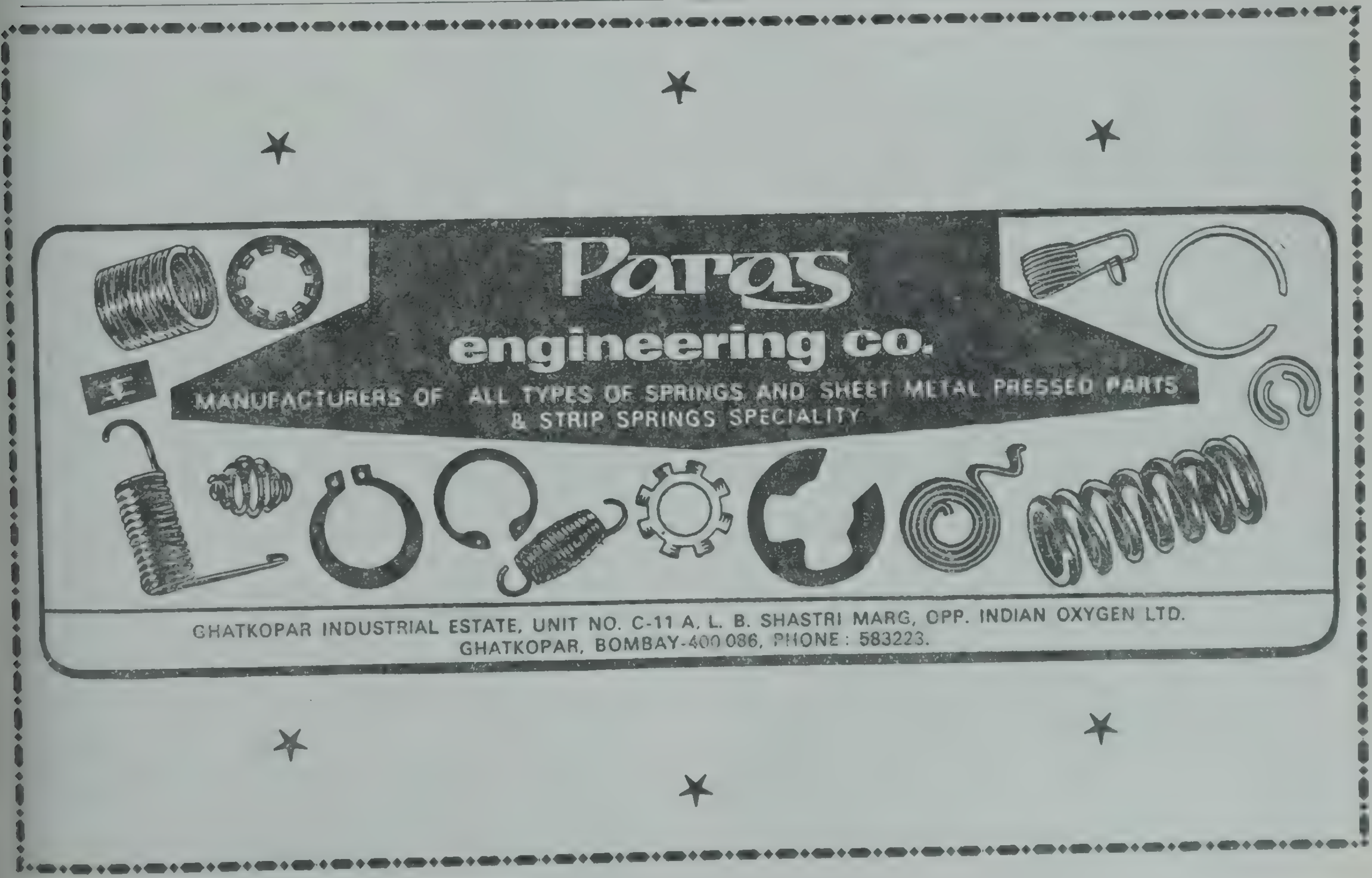
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Jyoti Industries, 26, Pottery Rd., Calcutta 700015.

Midland Spring Manufg. Co., 38, N. Subhas Rd., Calcutta 700001.

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New Dominion Engg. Works, 1/B, Pottery Rd., Calcutta 700015.

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Stapco Ind., 16, Rocky Ind. Estate, I. Patel Rd., Goregaon (E), Bombay 400063.

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Imperial Stationery Co., Medows St., Bombay 400023.

International Stationery Stores, Victoria Bldg., S. A. Brelvi Rd., Bombay 400001.

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Raja Traders, 117, Medows St., Bombay 400023.

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Partap Steel Rolling Mills Pvt. Ltd., 21/3, Mathura Rd. Ballabhgarh 121004.

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Canara Workshops Ltd., Deyeli Padavu, Mangalore 575001.

Central Steel Corpn., No. 9, S. P. Rd., Bangalore 560002

Saroj Alloy & Steels Ltd., Post Box 38, Hospet 583201.

Visvesvaraya Iron & Steel Ltd., P.O. Bhadravati 577301

Maharashtra

Aditya Mills Ltd., Stadium House, V. Nariman Rd., Bombay 400020.

Basant Alloy Steel Ltd., C-6, MIDC Ind. Area, Tarapur 401502. (Thane Dist.).

Comet Steels, 3/11/29, Navjivan Socy., Lamington Rd., Bombay 400008.

Firth India Steel Co. Ltd., Plot No. F-3, Rd. No. 22, Thane Ind. Area, P.O. Wagle Estate, Thane [illegible]

Guest, Keen, Williams Ltd., Lal Bahadur Shastri Marg, Bhandup, Bombay 400078.

Mahindra Ugine Steel Co. Ltd., Bakhtawar, Nariman Point, Bombay 400021.

Man Ind. Corpn. Ltd., 66, Alli Chambers, Tamarind Lane, Bombay 400023.

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Navbharat Steel Rolling Mills, L. B. S. Marg, Bhandup, Bombay 400078.

Shakti Alloy Steel Ltd., Kerala Bldg., H. School Rd., Sangli 416416.

Special Steels Ltd., Datta Pada Rd., Borivli (E), Bombay 400066.

Sumer Metal Corpn., 44/62, A. Dady St., Bombay [illegible]

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Metropolitan Steel Corpn., 23A, N. Subhas Rd., Calcutta 700001.
National Iron & Steel Co. Ltd., Belur, Howrah 711101.
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Orient Steel & Inds. Ltd., 2 Brabourne Rd., Calcutta 700001.
Special Steel Supply Centre, 219-C, Old China Bazar St., Calcutta 700001.
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Hitvic Engg. & Mfg. Co. Pvt. Ltd., Anand Sojitra Rd., Vallabh Vidyanagar 388120. (Gujarat).
Khandelwal Udyog Ltd., Kurla Kirol Rd., Ghatkopar (W), Bombay 400086.
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Lakshmi Engg. Works, 134/1, M. G. Rd., Calcutta 700007.
Motilal & Co., Oshiwara, S. V. Rd., Jogeshwari West, Bombay 400060.
Nathani Steel Pvt. Ltd., Vidya Vihar, Bombay 400086.
Patcon Pvt. Ltd., 7A, Elgin Rd., Calcutta 700020.
Peacefort Chem-Ind. Engg. Pvt. Ltd., 37-A, L.B.S. Mrg. Bombay 400078.
Peters Engg. Pvt. Ltd., 74, Bhosari Ind. Estate, Pune 411026.
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Siesta Steel Construction Pvt. Ltd., 401, Lotus House, 33A. New Marine Lines, Bombay 400020.
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Standard Fabricators (India) Pvt. Ltd., Jeevan Sahakar Sir P. M. Rd., Bombay 400001.
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Steel Fabricators, Ind. Estate, Sangli 416416.
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Vertex Engg. Works, B-23, Girikunj Ind. Estate, Andheri East, Bombay 400093.

Vijay Engg. & Trading Co., 71, M. Karve Rd., Bombay 400020.

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Kumardhubi Engg. Works Ltd., Kumardhubi 828203. Dhanbad Dist.

Tata Engg. & Locomotive Co. Ltd., Jamshedpur 831001.

Tata Yodogawa Ltd., Adityapur 831013.

Usha Alloys & Steel Ltd., Adityapur 831013.

Gujarat

Bharat Steel Foundry, Ganedia Kuwa Rd., Kotharia, Rajkot 360001.

Hindustan Brown Boveri Ltd., Maneja, Makarpura Rd., Vadodara 390001.

Poly Steels (India) Ltd., Survey No. 46, Nari Rd., Bhavnagar 364001.

Steelcast (Bhavnagar) Pvt. Ltd., Ruvapari Rd., Bhavnagar 364001.

Haryana

Dabriwala Steel & Engg. Co. Ltd., Sector 24, Plot No. 136, P.O. Faridabad 121001.

Globe Steels (Divn. of Globe Motors Ltd.), 21/4, Mathura Rd., Ballabgarh 121004.

Haryana Steel & Alloys Ltd., G.T. Rd., Murthal (Sonepat) 131001.

Jindal Strips Pvt. Ltd., Delhi Rd., Hissar 125001.

Northern India Iron & Steel Co. Ltd., 20/3, Milestone, Mathura Rd., Faridabad 121001.

Oswal Steels, Plot No. 263, Sector No. 24, Faridabad 121001.

Pratap Steel Rolling Mills Pvt. Ltd., 21/3, Mathura Rd., Ballabgarh 121004.

S. G. Steels Pvt. Ltd., Plot No. 6, Sector 4, Ind.-cum-Housing Estate, Faridabad 121001.

Universal Steel & Alloys Ltd., P.O. Gurukul, Indraprastha Ind. Estate, Faridabad 121001.

Karnataka

Bhoruka Steel Ltd., Mahadevpura P.O., Whitefield Rd., Bangalore 560048.

Canara Workshops Ltd., Maroli, Mangalore 575005.

Visvesvaraya Iron & Steel Ltd., Bhadravati 577301.

Kerala

Steel Complex Ltd., 'Wisco Manor', Feroke 673631.

Madhya Pradesh

Binod Steels Ltd., 68/77, Ind. Estate, Pologround, Indore 452001.

Central India Machinery Manufg. Co. Ltd., Agra Loop Rd., Birlanagar, Gwalior 474004.

Shri Ishar Alloy Steels Pvt. Ltd., Sector 'D', Sukhalia, Sanwar Rd., Indore 452001.

Maharashtra

Aeron Steel Rolling Mills, 2nd Pokhran Rd., Majiwada, Thane 400601.

B. R. Hermann & Mohatta (I) Pvt. Ltd., Mustafa Bldg., Sir P. M. Rd., Bombay 400001.

Godrej & Boyce Manufg. Co. Pvt. Ltd., Vikhroli, Bombay 400079.

Indian Steel Ind. Corpn., 106-7, Bazar Ward, Kurla, Bombay 400070.

K. T. Steel Ind. Pvt. Ltd., Broach St., Bombay 400009.

Krishna Steel Ind. Pvt. Ltd., Vaswani Mansion, D. Vachha Rd., Bombay 400020.

Kumar Steel & General Mills, Shastri Mrg., Bombay 400083.

Mahindra Ugine Steel Co. Ltd., Bakhtawar, Nariman Point, Bombay 400021.

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Rajasthan

Man Ind. Corpn. Ltd., P.B. 131, Jaipur 302001.

National Engg. Ind. Ltd., Jaipur 302001.

Tamil Nadu

Continuous Steel Casting Plant of TIDCO Ltd., Mosur Rd., Arkonam 631001.

Ennore Foundries Ltd., Ennore, Madras 600057.

K.C.P. Ltd., Central Workshop, Tiruvottiyur, Madras 600019.

Shri Ramakrishna Steel Ind. Ltd., Karamadai 641104. Coimbatore Dist.

Sivananda Steels Ltd., Ind. Estate, Ambattur, Madras 600058.

Uttar Pradesh

Ambica Steels Pvt. Ltd., 51/2, Ind. Area, Site 4, Sahibabad, Ghaziabad 201005.

J. K. Iron & Steel Co. Ltd., Kalpi Rd., Kanpur 208001.

Modi Steels, Modi Ind. Ltd., Modinagar 201204.

Motilal Padampat Sugar Mills Co. Pvt. Ltd., Steel Foundry Division, Gutaiya, Kanpur 208001.

Rathi Ispat Ltd., Area No. 1, Ghaziabad 201001.

West Bengal

Alloy Steel Plant, Durgapur 713204.

Burn & Co. Ltd., 20, N. Mukerjee Rd., Howrah 711101.

Electrosteel Castings Ltd., Stephen House, 31A, Jhowtala Rd., Calcutta 700017.

Gontermann Peipers (I) Ltd., 69, G. C. Ave., Calcutta 700013.

Guest, Keen, Williams Ltd., Steel Division, 97, Andul Rd., Howrah 711103.

Hindustan Iron & Steel Co., 68, Jessore Rd., Dum Dum, Calcutta 700028.

Hindustan Motors Ltd., 15, India Exchange Place, Calcutta 700001.

Howrah Iron & Steel Works Pvt. Ltd., 90, Benares Rd., Salkia, Howrah 711106.

Indian Iron & Steel Co. Ltd., Asansol 713301.

Indo-Japan Steels Ltd., 5/1, G.T. Rd., Belur, Howrah 711101.

Kusum Steels Pvt. Ltd., 3, Amratolla St., Calcutta 700001.

Mining and Allied Machinery Corpn. Ltd., P.O. Durgapur 713201.

National Iron & Steel Ltd., P.O., Belur Math 711202. Howrah Dist.

Orient Steel & Wire Inds. Ltd., 2, Brabourne Rd., Calcutta 700001.

Textile Machinery Corpn. Ltd., Steel Foundry Division, Belgharia, Calcutta 700056.

STEEL FURNITURE & SECURITY EQUIPMENT

Andhra Pradesh

Andhra Steel Furniture Works, 7, M. Gandhi Rd., Secunderabad 500003.

Bantia Steel Ind. Pvt. Ltd., 14, New Bhoiguda, Secunderabad 500003.

Hyderabad Allwyn Metal Works Ltd., Sanatnagar, Hyderabad 500018.

Trinity Metal Ind., A-5, Co-op. Ind. Estate Ltd., Balanagar, Hyderabad 500037.

Assam

Metal & Alloy Inds., Tinsukhia 786125.

Chandigarh

Decor Steel Pvt. Ltd., 71/72, Indl. Area, Chandigarh 160002.

Delhi

Delhi Engg. Works Pvt. Ltd., Azadpur, Delhi 110033.

Delite Safe Works, Qutab Rd., Delhi 110006.

Fourbhai Engg. Works, G. T. Rd., Delhi 110032.

Garnish Traders Pvt. Ltd., 24, Kamla Market, New Delhi 110001.

Indian Safe Factory, 10254, Loha Mandi, Motia Khan, New Delhi 110007.

J. M. Chimanlal Agarwal & Co., 3676, Chawri Bazar, Delhi 110006.

Style Steel & Engg. Works, 60, Rani Jhansi Rd., New Delhi 110055.

Union Engg. Co., AA/6, Anand Parbat, St. No. 4, Guru Gobind Singh Mrg., New Delhi 110005.

Gujarat

Ahmedabad Eagle Engg. Enterprises Pvt. Ltd., 410, Near Rly. Crossing, Naroda, Ahmedabad 382325.

Chandan Metal Products Pvt. Ltd., Gorwa Rd., Vadodara 390003.

Jayendra Metal Ind. Ltd., Opp. Baroda College, Vadodara 390001.

Laxmi Steel Inds., Opp. Vakil Seva Kendra, [illegible] Rd., Sayajiganj, Vadodara 390001.

Pasmar Enterprises, C-11, Indl. Est., [illegible]

Security Equipment Manufrs., 47, Ind. Estate, Naroda, Ahmedabad 382325.

Trigon Metal Sections, Gorwa Rd., Vadodara 390003

Vaultex Ind., 4/24, Ind. Estate, Gorwa Rd., Vadodara 390003.

Karnataka

Bangalore Metal Products Pvt. Ltd., C-34, Govt. Ind. Estate, Rajajinagar, Bangalore 560010.

Chamundeshwari Engg. Works, 8th Mile, Mysore Rd., R. V. Coll. Post, Bangalore 562124.

Mahakali Engg. Corpn., 133, Nagarthpet, Bangalore 560002.

Vijaya Trading Co., 306, Sub. Chatram Rd., Bangalore 560009.

Madhya Pradesh

Malwa Steel Factory, Topkhana Rd., Ujjain 456001.

Vanguard Business Systems Ltd., 355, Jawahar Marg. Indore 452004.

Maharashtra

Allsteel, Bombay Mutual Terrace, 534, Sardar Patel Rd., Bombay 400007.

Asian Steel Products, 311-13, Kalbadevi Rd., Bombay 400002.

Dwivedi Steelmade Pvt. Ltd., 230, Dr. A. Besant Rd., Bombay 400018.

Godrej & Boyce Manufg. Co. Pvt. Ltd., Godrej Bhavan, Home St., Bombay 400001.

Govin's Safe Manufg. Co., 167, Viegas St., Bombay 400002.

Gujarat Iron & Steel Works, 356, Sandhurst Rd., Bombay 400004.

Harpreet Inds., Pt. J. L. Nehru Mrg., Aurangabad 431001.

Honesty Iron Works, 60, 1st Carpenter St., Bombay 400004.

Khinvasara Ind., S. No. 127, Akurdi, Pune 411019.

Khira Steel Works Pvt. Ltd., Sandhurst Bridge, Bombay 400007.

Methodex Business Systems, 33-A, New Marine Lines, Bombay 400020.

Metro Steel Products, Kalbadevi Rd., Bombay 400002.

New Gujarat Safe & Steel Works, Jogeshwari (E), Bombay 400060.

Office Equipment Co. of India, Bombay Mutual Bldg., Sir P. Mehta Rd., Bombay 400001.

Record Management Aids, 9/3 Tardeo A C Mkt., Bombay 400034.

Standard Steel Furniture Works, 91, Mohammedali Rd., Bombay 400007.

Steelage Ind. Ltd., Opp. Post Office, Mazgaon, Bombay 400010.

Steelmade, 230, Dr. A. Besant Rd., Bombay 400018.

Union Sales Corpn., 239, P. D'Mello Road, Bombay 400001.

Venus Steel Products (India), 301, Kalbadevi Road, Bombay 400002.

Tamil Nadu

Agro-Indl. Engg. Combine, Bodipatti, Udamalpet [illegible] Coimbatore Dist.

Bendweld Ind., 297, T. H. Rd., Madras 600001.

Chelur Corpn., 30A, Pantheon Rd., Egmore, Madras 600008.

Dindigul Lock Workers Co-op. Ind. Society Ltd., Malaipatli Rd., Dindigul 624001.

Southern Engg. Indls., 146, Dr. R. Prasad Rd., Tatabad, Coimbatore 641012.

Sri Ram Corpn., 3/2, Jagannathan Rd., Nungambakkam, Madras 600034.

Tamilnad Thozhilagam, Sidco Plot-13, Ind. Estate, Ambattur, Madras 600058.

Uttar Pradesh

Charan Safe Works Pvt. Ltd., 6-A, Ind. Estate, Kanpur 208001.

New Era Steel Inds., Mukand Nagar, Ghaziabad 201001.

West Bengal

Acme & Co., 'Jain House', 8/1, Esplanade East, Calcutta 700001.

Anand Metal & Steel Works, 23, Brabourne Rd., Calcutta 700001.

Bengal Steel Furniture, P-40/45, Ezra St., Calcutta 700001.

Bombay Safe & Steel Works Pvt. Ltd., 56, N. Subhas Rd., Calcutta 700001.

Bungo Steel Furniture Ltd., 57, Diamond Harbour Rd., Calcutta 700023.

Calcutta Furniture Works Ltd., 69/1, S. K. Deb Rd., Calcutta 700028.

Chatterjee Engg. Co., 113, Lenin Sarani, Calcutta 700043.

Commercial Medium Pvt. Ltd., 51, Chittaranjan Ave., Calcutta 700012.

Commercial Syndicate, 22, Canning St., Calcutta 700001.

Cromelite India Pvt. Ltd., P-35, India Exchange Place, Calcutta 700001.

D. P. Steel Ind., 93/1, Tollygunge Rd., Calcutta 700033.

DE's Lock Ind., 31, H. Dutta Lane, Calcutta 700033.

India Steel Furniture Manufg. Co., 95, M. Gandhi Rd., Calcutta 700007.

Joinery Manufg. Co., 77/1, Christopher Rd., Calcutta 700046.

Jupiter Steel Manufg. Co., 20/A, Brabourne Rd., Calcutta 700001.

Kedarnath Parsotamdas & Co., Pvt. Ltd., 37, N. Subhas Rd., Calcutta 700001.

Metro Ind. Works, 94, B. Ghose Rd., Calcutta 700040.

Orient Safe & Cabinet Manufg. Pvt. Ltd., 133, B.R.B. B. Rd., Calcutta 700001.

Roy-Singha Engg. Works, 639, Diamond Harbour Rd., Behala, Calcutta 700034.

Steel Products Ltd., 96, Garden Reach Rd., Calcutta 700023.

STEEL—STAINLESS

Andhra Pradesh

Deccan Stainless Steel & Wire Ind., Block B, 19/4, Ind. Area, Azmabad, Hyderabad 500020.

Vishalandhra Ind., Plot 1, Ind. Area, Azamabad, Hyderabad 500020.

Delhi

Ashok Manufg. Co. Pvt. Ltd., 37, Panchkuin Rd., New Delhi 110001.

D. C. M. Datta Products, Kanchenjunga Bldg., 18, Barakhamba Rd., New Delhi 110001.

Indl. Engg. Corpn. of India, 701, Asha Deep, 9, Hailey Rd., Badli, New Delhi 110001.

Metal Forgings Pvt. Ltd., B-1, Indl. Area, New Delhi 110027.

Shahdara Aluminium Factory, G. T. Rd., Shahdara, Delhi 110032.

Shree Metal Works, 25/4, Block 'A', Connaught Place, New Delhi 110001.

Gujarat

Asha Metal Ind., Prajapatiwadi, Vejalpore, Navsari 396445.

Dasharathlal Chimanlal & Bros., Gujarat Pharmaceutical's Comp., Asarwa, Ahmedabad 380016.

Naran Lala Metal Works Pvt. Ltd., Near Rly. Stn. Navsari 396445.

Precision Engg. Ind., Kapadia Bldg., Lakkad Pitha, Madan Zampa, Vadodara 390001.

Haryana

Adarsh Metal Ind., Behind Gowshala, Jagadhri 135003.

Punjab Wire Netting Ind., Railway Rd., Narnaul 123001,

Himachal Pradesh

Garga Steel Inds., Bhadri Nagar, Paonta Sahib 173025.

Jesico Metalware Factory, Bhadri Nagar, Paonta Sahib 173025.

Shivalik Metal Ind., Bhadri Nagar, Paonta Sahib 173025,

Karnataka

Sri Viswanatha Silver Manufg. & Electroplating Works, 124, Sadar Patrappa Rd., Bangalore 560002.

Kerala

A.K.P. Metals & Alloys, Christ College Rd., Irinjalakuda 680121.

Maharashtra

Amalgamated Universal Agencies Pvt. Ltd., 306, Lotus House, 33A, New Marine Lines, Bombay 400020.

Anil Metal Corpn., 5, 2nd Panjrapole Lane, Bombay 400004.

Asian Metal Corpn., 142, Panjrapole Rd., Gulalwadi, Bombay 400004.

Best Silver Co., 55, M. Gandhi Rd., Vile Parle (East), Bombay 400057.

Bhogilal & Co., 250-C, New Cross Rd., Opp. Metal Box Co., Worli, Bombay 400018.

Bihar Alloy Steels Ltd., Bombay-Agra Rd., Bhandup, Bombay 400078.

Bombay Brass & Metal Works, 2nd Panjrapole St., Bombay 400004.

Chetan Steel & Engg. Co., 6, V. P. Rd., C. P. Tank, Bombay 400004.

Deepak Metal Ind., 16, Bank St., Bombay 400023.

Devidayal Stainless Steel Ind. Pvt. Ltd., Darukhana, Reay Rd., Bombay 400010.

Eagle Industries, 41/C, Jairajbhai Lane, Bombay 400008.

Eastern Metal Works, 102, Dattaram Lad Path, Bombay 400012.

Galaxy Metal Corpn., 448, Falkland Rd., Near Sindhi Lane, Bombay 400004.

Gujarat Metal Factory, 589, Rasta Peth (New), Pune 411011.

Hedavkar Metal Pressing Works, B. Shankar Cross Rd., Dadar, Bombay 400028.

Highland Metal Ind., 163, Panjrapole Rd., Bombay 400004.

Hiro Industrial Metal Corpn., 3rd Panjrapole Lane, Bombay 400004.

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Industrial & Commercial Corpn., 13-B, 9th Khetwadi Lane, Bombay 400004.

Industrial Metal Corpn., 52, Islampura St., Bombay 400004.

Jain Metal Ind., 222, Panjrapole Rd., Bombay 400004.

Jajodia Alloys Steel Co., Mittal Chambers, Nariman Point, Bombay 400020.

Jogani Metal Ind., Prabhu Niwas, 148-A, V. Patel Rd., Bombay 400004.

K. C. Metal Ind., 14/1, Jaihind Estate, Bhuleshwar, Bombay 400002.

K. R. Metal Ind. Pvt. Ltd., C. Ashok Rd., Ashok Nagar, Kandivli (East), Bombay 400064.

Kanti Impex Trading Co., 125, N. Master Rd., Bombay 400001.

Kishco Cutlery Manufg. Co., Empire Bldg., 138, Dr. D. Naoroji Rd., Bombay 400001.

Kwality Steel Corpn., 156, Bapty Rd., Bombay 400008.

Lallubhai Amichand Pvt. Ltd., 48/50, Kansara Chawl, Bombay 400002.

Lucky Stainless Steel Works, 133rd Panjrapole Lane, Bombay 400004.

Mahavir Metal Ind., 12, Gala Ind. Estate, Mulund (West), Bombay 400080.

Metal India, 182, Kalbadevi Rd., Bombay 400002.

Metro Steel Corpn., 59, A. Daly St., Bombay 400004.

Mitsui & Co. Ltd., Manek Mahal, V. Nariman Rd., Bomb 400020.

N. M. Metal Ind., 20, Dadysett Agiary Lane, Bomb 400002.

National Metal Ind., 15-A, Parel Village Rd., Par Bombay 400012.

Oriental Metal Pressing Works Pvt. Ltd., 131, Wor Bombay 400018.

Oswal Metal Supply Corpn., 108-A, Kika St., Bomb 400004.

P. Jayantilal & Co., 76-B, Mohamedali Rd., Bomb 400004.

Paradise Metals, 8-10, 2nd Carpenter St., Bombay 4000

Paramount Stainless Co., 187, Mumbadevi Rd., Bomb 400002.

Parmar Products, Moti Udyog Nagar, Ramchandra La Malad, Bombay 400064.

Pearl Metal Works, 20, Wadi Bunder Rd., Bombay 4000

Pitambardas Lallubhai & Co., 86, Kansara Chawl, Bomb 400002.

Popular Metal Works & Rolling Mills, Sion, Bomb 400022.

R. K. Ind., 12/18, V. Patel Rd., Bombay 400004.

R. Navinchandra & Co., Mehta Chambers, Kalyan St Bombay 400009.

Ramkishan Metal Corpn., 138, Kalbadevi Rd., Bomba 400002.

Ramkishan Metal Works (Bombay), 32-34, Ashok Chambers, Broach St., Bombay 400009.

Rasiklal Kantilal & Co., 145, Kika St., Bombay 4000

Rose Metal Ind., G-77, Sarvodaya Nagar, Panjrapole Rd Bombay 400004.

Roshan Ind. Corpn., 7, Kika St., Bombay 400004.

Samir Metal Corpn., 24-A, Fanaswadi, Bombay 40000

Sanghvi Non-Ferrous Metal Ind., 159/2, Akurdi, Ne Chinchwad Rly. Stn., Bombay Poona Rd., Pune 41101

Shah Metal Pressing Works, 201, Khetwadi Main Rd Bombay 400004.

Shri Krishna Associates, 431, Lamington Rd., Bomba 400004.

Shri Krishna Metal Works, 26, Kotkar Ind. Estat Bombay 400063.

Steel India Co., 35, Krishna Bhavan, 1st Carpenter St Bombay 400004.

Suresh & Co., 501, Loha Bhavan, Frere Rd., Bomb 400009.

Thakoor Metal Ind., 41-A, Chakala Rd., Andheri, Bomba 400069.

Uni Abex Alloy Products Ltd., Liberty Bldg., N. Mari Lines, Bombay 400020.

Universal Metal Corpn., Shrinathji Bldg., 3rd Bhoiwa Rd., Bombay 400002.

Vijay Metal Works, 'Ramkrupa', 25, Parekh St., Gaga Bombay 400004.

Vinay Metal Ind., 29-C, Sarvodaya Nagar, Panjrapole Rd Bombay 400004.

Vinod Stainless Steel Works, 53, 2nd Bhoiwada, Bomba 400002.

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Punjab

Kuldip Ind., Kuldip Nivas, Main Bazar, Pathankot 145001.

Punjab Steel Forging & Agro-Industries, G. T. Rd., Chandigarh 160017.

Tamil Nadu

Comsales Industries, C-5, Ind. Est., Madras 600058.

Globe Ind. Corpn., 171/173, Nyniappa Naicken St., Madras 600003.

M. A. Ethirajulu Naidu, 7/4, Evening Bazar, Madras 600003.

Mysore Premier Metal Factory, 127, Mint St., Madras 600003.

S. D. & Sons, 16, Lakmudas St., Park Town, Madras 600003.

Sanghvi Metal House, 451, Mint St., Madras 600003.

Uttar Pradesh

Amit Alloys Pvt. Ltd., Mahmoodabad Estate Bldg., Hazratganj, Lucknow 226001.

M. S. Gupta & Bros., Rishikul Rd., Moradabad 244001.

Mital Rolling Mills, Budh Bazar, Moradabad 244001.

West Bengal

Ashok Metal Ind. Ltd., 157, N. Subhas Rd., Calcutta 700001.

Bengal Ind. Corpn., 11, J. Jalan Rd., Liluah 711204.

Bombay Stainless Steel House, 56, Cotton St., C 700007.

C.S.K. Ind., 219/C, Old China Bazar St., Calcutta

Chandra Ind., 59, Cotton St., Calcutta 700007.

Eskey Stainless Steel Equipments Pvt. Ltd., P-31, M Row Extn., Calcutta 700013.

Jeetmull Jaichandlal, 109, Netaji Subhas Rd., C 700001.

Kanoi Steel Corpn., 37, Canning St., Calcutta 70

New India Metal Ind., 139, [illegible] 711106.

Pelican Engrs., 4, Hartford Le., Calcutta 700016.

Progressive India, 11, Armenian St., Calcutta 70

Standard (India) Co., 14/2, Old China Bazar St., C 700001.

Steel Emporium, 51, N. Subhas Rd., Calcutta 70

Steel Rolling Mills of Hindustan Pvt. Ltd., 47, H Calcutta 700027.

STEEL STRIPS

Anil Steel & Inds. Ltd., Kanakpur, Jaipur 302001.

Bestamco, 94, S. V. Rd., Erla, Bombay 400056.

Colour Arc-Electrodes, 112, N. Dhuru St., Bombay 4

Dalmia & Co., 138, B.R.B.B. Rd., Calcutta 700001.

Graham Firth Steel Products (India) Ltd., Compd., W. Express Highway, Goregaon Bombay 400063.

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Mohta Electro Steel Ltd., Sanas Bldg., Ambedkar Mrg., Byculla, Bombay 400033.

Nagarjuna Steels Ltd., Nagarjuna Hills, Panjagutta, Hyderabad 500004.,

Prime Wire Corpn., 50, Durgadevi St., Kumbharwada, Bombay 400004.

Rolled Strips and Profiles Pvt. Ltd., Plot 3, Ind. Estate, S. Vellalpatty, Karur 639114. Tamil Nadu.

Steel Corpn., 23, Kumbharwada 2nd Le., Bombay 400004.

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Tube Products of India Ltd., Avadi, Madras 600054.

STEEL TUBES & PIPES

Apollo Tubes Ltd., 147, Mount Rd., Madras 600006.

Arjun Steel Tubes, Manjeet Engg. Inds. Bldg., 71/1, Shivaji Mrg., New Delhi 110015.

Bharat Steel Tubes Ltd., 17, Parliament St., New Delhi 110001.

Bundy Tubing of India Ltd., 11/12, North Beach Rd., Madras 600001.

Cedtury Tubes Ltd., Sector S-A, Plot No. 3, Faridabad 121001.

Choksi Tubes Co. Pvt. Ltd., 113/114, Bajaj Bhavan, Nariman Point, Bombay 400021.

Fin-Tubes Mfg. Co., MIDC, Plot No. 76, Rd. No. 14, Andheri East, Bombay 400093.

Gujarat Steel Tubes, Bank of India Bldg., Bhadra, Ahmedabad 380001.

Gupta Bros. Conduit Pipe Mfg. Co. Pvt. Ltd., Dinanagar 143531. Gurdaspur Dist. (Punjab).

Hyderabad Steel Tubes Pvt. Ltd., 16th K. M., Gandipet, Hyderabad 500008.

Jindal Steel Products, 16-A, M. Gandhi Rd., Calcutta 700007.

Jotindra Steel & Tubes Ltd., 1/10-B, A. Ali Rd., New Delhi 110002.

Kochhar Tubes Pvt. Ltd., 157, Princess St., Bombay 400002.

Malet Welding Works (Tube Mill Divn.), 16, Bank St., Bombay 400023.

Quality Steel Tubes Pvt. Ltd., 323–325, Narshi Natha St., Bombay 400009.

Rajendra Mechanical Inds. Pvt. Ltd., 325, Kalbadevi Rd., Bombay 400002.

Shivmoni Steel Tubes Ltd., 2/4, Ashley Rd., Bangalore 560025.

Shri Ambica Tubes, Kankaria, Ahmedabad 380008.

Standard Steel (India) Pvt. Ltd., 20, Ind. House, Nagdevi X Lane, Bombay 400003.

Steel Tubes of India Ltd., 128, Jolly Maker Chamber 2, 225, Nariman Point, Bombay 400021.

Surendra Inds. (Bombay) Pvt. Ltd., 22/24, Iron Mkt., Baroda St., Bombay 400009.

Tubes & Allied Products, 113/114, Bajaj Bhavan, 11th Flr., Nariman Point, Bombay 400021.

Uni Abex Alloy Products Ltd., Liberty Bldg., N. Marine Lines, Bombay 400020.

Zenith Steel Pipes & Inds., Ltd., Khopoli 410203. (Kolaba Dist.).

STEEL TUBULAR POLES, STRUCTURES, ETC.

Amiya Corpn., 19, British Indian St., Calcutta 700001.

Asian Poles & Tubes Co., 7, Lucky Mansion, Mohamedali Rd., Bombay 400003.

Bombay Tubes & Poles Co., Darukhana, 2nd Lane, Mazgaon, Bombay 400010.

Chatterjee Engg. Co., 113, Lenin Saranee, Calcutta 700013.

India Electric Poles Mfg. Co., 2nd Lane, Darukhana, Bombay 400010.

Jaibharat Poles Manufg. & Engg. Co., 4-5, Ind. Est., Vadodara 390003.

Patcon Pvt. Ltd., 7A, Elgin Rd., Calcutta 700020.

Steelfab Engg. Corpn., 5, Ismail Bldg., 381, Dr. D. Naoroji Rd., Bombay 400001.

Texmaco Ltd., Calcutta 700056.

Tubit Poles Inds., B-4, Fosbery Rd., Sewri East, Bombay 400015.

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Hyderabad Allwyn Metal Works Ltd., Sanatnagar, Hyderabad 500018.

Rama Rolling Shutters & Engg. Works, 8, Distillery Rd., Secunderabad 500003.

Assam

Assam Udyog Co., Mancotta Rd., Dibrugarh 786001.

Steel Works Pvt. Ltd., Commercial Bldg., Tezpur 784001.

Delhi

Anand Ind., 31-5, New Rohtak Rd., New Delhi 110005.

Indian Rolling Shutters & Engg. Works, 63, Rani Jhansi Rd., New Delhi 110055.

Metal Windows Corpn., 29-1, New Rohtak Rd., New Delhi 110005.

New Era Steel Co., 3, Indl. Complex, Wazirpur, Delhi 110052.

Prakash & Co. (Regd.), 48, M.M. Rd., New Delhi 110055.

Gujarat

AGEW Steel Manufrs. Pvt. Ltd., 522/1, Outside Panchkuva Gate, Ahmedabad 380002.

Ahmedabad Steelcrafts & Rolling Mills, Outside Sarangpur Gate, Ahmedabad 380018.

Doors & Windows Pvt. Ltd., 80, Ind. Estate, Udhna 391420.

General Engg. Group, Haribhakti Wadi, Timber Market Rd., Vadodara 390001.

Sarvodaya Rolling Shutters & Engg. Works, Rakhial Rd., Ahmedabad 380021.

Vishwakarma Rolling Shutters Manufg. Co., Gheekanta Rd., Ahmedabad 380001.

Haryana

Bawa Iron & Steel Works Ltd., M-1, Indl. Area, Sonepat 131001.

Karnataka

Dhanalaxmi Safe Co., Stn. Rd., Hubli 580020.

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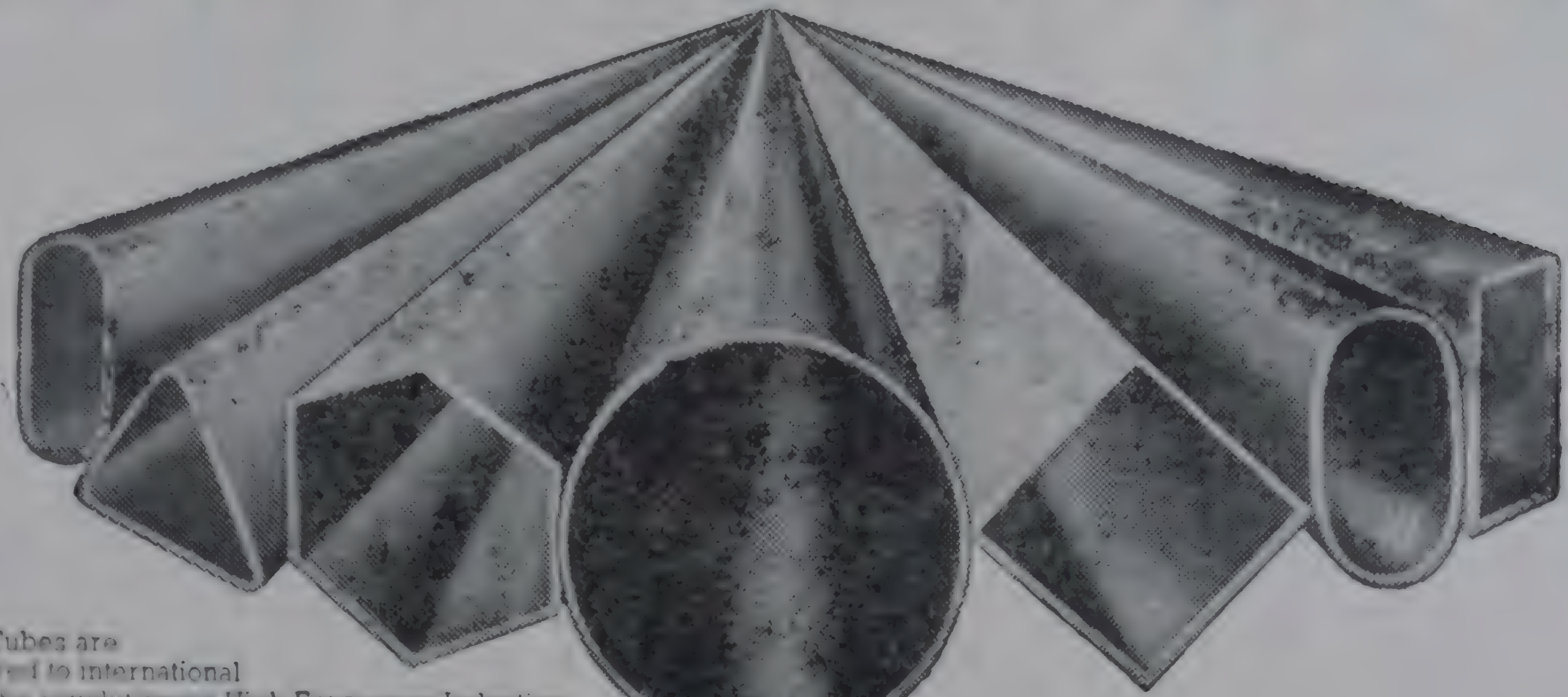

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jaya Trdg. Co., 306, S. Chatram Rd., Bangalore 560009.

adhya Pradesh

mplex Engg. Co., Nagpur Rd., Jabalpur 482001.

aharashtra

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ine Rolling Shutters Manufg. Co., 124, Dr. M. G. Mahimtura Marg, Bombay 400004.
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ind Tank Manufg. Co., 150, B. T. Parsram Rd., Bombay 400004.
etal Folds, Kurla Indl. Est., Bombay 400086.
etal Window Manufg. Co., 117, Clive Rd., Bombay 400009.
oosa Haji Patrawala, 20, Dr. E. Moses Rd., Bombay 400011.
avbharat Rolling Shutters & Engg. Works, Station Rd., Parel, Bombay 400013.
ew Era Rolling Shutters & Engg. Works, Sonawalla Cr. Rd., Goregaon East, Bombay 400063.
ew Standard Engg. Co. Ltd., N.E.S Est., Goregaon (E), Bombay 400063.
olwel Industries, A-32, Wagle Ind. Estate, Thane 400604.
. R. Surve & Co., Shop No. 7, Opp. C.I.S.C.O. Factory, Bombay 400063.
atyam Engg. Corpn., 93/95, Bazar Gate St., Bombay 400001.
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en Harvic, 37, A. Rehman St., Bombay 400003.
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Shubh Engg. Corpn., 15, Bank St., Bombay 400023.
Shubhdwar Rolling Shutters & Engg. Co., Bombay Airconditioned Mkt., Tardeo, Bombay 400034.
Standard Steel Doors Mfg., Co., 164, Dr. M. G. Mahimtura Mrg., Bombay 400004.
Star Rolling Shutters Mfg. Co., 139, M. Mahimtura St., Bombay 400004.
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Zenith Iron Works, 46, A. Rehman St., Bombay 400003.

Punjab

Chawla Rolling Shutters Ind., Opp. P.O., Rly. Rd., Jullundur 144001.

Rajasthan

Man Indl. Corpn. Ltd., P. B. No. 131, Jaipur 302006.

Tamil Nadu

Atlas Metal Works (Madras), 24, Errabalu Chetty St., Madras 600001.
Diana Rolling Shutters (Madras), 167, Walltax Rd., Madras 600001.
Fabrimats (Madras) Pvt. Ltd., 50/1, Elliots Beach Rd., Madras 600032.
Nirmal Engg. Works, 14, K. Mudaliar Rd., Coimbatore 641002.
Prabhakar Inds., 97, S. Avanimoola St., Madurai 625001.
Rakhi Ind., 26, Devanga High School Rd., R. S. Puram, Coimbatore 641002.
Southern Engg. Industrials, 146, Dr. R. Prasad Rd., Coimbatore 641012.
Vinayak Senthil Ind., 201, Dr. Nanjappa Rd., Coimbatore 641018.

Uttar Pradesh

Allahabad Rolling Shutter Works, Triveni Rd., Allahabad 211001.

Northern India Iron Press Works, Aishbag, Lucknow 226004.

Saran Safe Works Pvt. Ltd., P. B. No. 412, Kanpur 208012.

Vanguard Rolling Shutters & Steel Works, Belanganj, Agra 282001.

West Bengal

Anamika Trading Co., 23A, N. Subhas Rd., Calcutta 700001.

Bengal Rolling Shutters & Engg. Works, 103, N. Subhas Rd., Calcutta 700001.

Bharat Rolling Shutters & Engg. Works, 7, Nawab A. R. St., Calcutta 700016.

Calcutta Collapsible Gate Co. Ltd., 77, N. Subhas Rd., Calcutta 700001.

Commercial Medium Pvt. Ltd., 51, Chittaranjan Ave., Calcutta 700012.

Debendra Nath Paul & Co., 32/2, Nirmal Chunder St., Calcutta 700012.

Dhariwal Rolling Shutters & Engg. Works, 109, N. Subhas Rd., Calcutta 700001.

Diana Rolling Shutters & Engg. Works, 8, Stephen House, Dalhousie Sq., Calcutta 700001.

Gee Bee Ind., 34, Diamond Harbour Rd., Calcutta 700060.

Gopal & Kumar Pvt. Ltd., 10A, Harrington St., Calcutta 700016.

Hind Collapsible Gate Co., 167, Beliaghata Main Rd., Calcutta 700010.

Hopes Metal Windows Ltd., Transport Depot Rd., Calcutta 700027.

India Collapsible Gate Co., 23, Picnic Garden Rd., Calcutta 700039.

Kalyan Indl. Corpn., 56, N. Subhas Rd., Calcutta 700001.

Khemchand Raj Kumar, 46/C, Chowringhee Rd., Calcutta 700016.

Modi Steels Pvt. Ltd., P-22, Swallow Lane, Calcutta 700001.

Multiwyn Ind. Corpn., 61, Muktaram Babu St., Calcutta 700007.

Paul's Rolling Shutters & Engg. Works, 1A/H/11, Lime St., Calcutta 700015.

Steelwyn Corpn., P/11, Chitpur Spur, Calcutta 700007.

STEEL WIRES & WIRE ROPES

Andhra Pradesh

Utility Metal Works, B-5 & 6, Ind. Area, Sanatnagar, Hyderabad 500018.

Bihar

Indian Steel & Wire Products Ltd., Post Indranagar, Jamshedpur 831008.

Maxwell Wire Inds., Rajapur, Patna 800001.

Delhi

Chetan Swarup Vinod Swarup, 29, Najafgarh Rd., New Delhi 110015.

Hindustan Kokoku Wire Ltd., 22-B, Himalaya House, K. Gandhi Marg, New Delhi 110001.

Gujarat

C. Prabhudas & Co. Pvt. Ltd., Mehta Chambers, M. Gandhi Rd., Bhavnagar 364001.

Navsari Processing Ind. Pvt. Ltd., Near Rly. Stn., Maroli 396130.

Karnataka

Deccan Wires Ltd., D. R. College East, [illegible] Bangalore 560029.

Kerala

Aluminium Ind. Ltd., No. 1, Ceramic [illegible] Kundara 691501.

Pearlite Wire Products Ltd., XXX 467E, M. G. Cochin 682016.

South India Wire Ropes Ltd., Edathala, Alwaye

Madhya Pradesh

Anand-Bahri Steel & Wire Products, Ind. Estate, [illegible] Rd., Raipur 492001.

Maharashtra

B. R. Steel Products Pvt. Ltd., 29-30, Vaswani [illegible] D. Vachha Rd., Bombay 400020.

Bombay Wire Ropes Ltd., 401/405, Jolly Bhavan No. 10, New Marine Lines, Bombay 400020.

Devidayal Cable Ind. Ltd., Gupta Mills Estate, [illegible] Rd., Bombay 400010.

Eldee Wire Ropes Pvt. Ltd., Eldee Chambers, 3, [illegible] St., Bombay 400009.

Everrgreen Wirecloth Factory, 18, New Marine [illegible] Bombay 400020.

Hindusthan Wire Inds. Pvt. Ltd., Kamruddin [illegible] Vissanji Rd., Bombay 400072.

Kantilal Jain & Co., 37, 2nd Bhoiwada, Bombay

Krips Consultants, 301, Kakad Chambers, 132, Dr. Besant Rd., Worli, Bombay 400018.

Multiweld Wire Co. Pvt. Ltd., 59, Marol-[illegible] Bombay 400059.

National Standard Duncan Ltd., Nirmal, [illegible] Bombay 400021.

Special Steels Ltd., Dattapada Rd., Borivli (East) Bombay 400066.

Steel India Pvt. Ltd., 259, Kalbadevi Rd., Bombay 400002.

Tejpauls Pvt. Ltd., 225, S. Tukaram Rd., Bombay

Tensile Steel Ltd., Shah House, Shiv Sagar Estate, Dr. A. Besant Rd., Bombay 400018.

United Wire Ropes Ltd., Marutikumar Rd., Thane

Punjab

Sterling Wires Ltd., Shiv Murti House, Una Rd., [illegible] pur 146001.

Tamil Nadu

Indian Steel Rolling Mills Ltd., Oriental Bldg., [illegible] Armenian St., Madras 600001.

Uttar Pradesh

Associated Ind. Corpn., 93, Factory Area, [illegible] Kanpur 208012.

West Bengal

AVJ Wires Pvt. Ltd., 28, Strand Rd., Calcutta [illegible]

B. Sarkar & Sons, P-4, New Howrah Bridge [illegible] Rd., Calcutta 700001.

Bright Wires Ltd., 1/A, Vansittart Row, [illegible]

Chandha Rolling Mills Pvt. Ltd., [illegible] 700001.

Fort William Ltd., 14, N. Subhas Rd., Calcutta [illegible]

Guest, Keen, Williams Ltd., 97, Andul Rd., [illegible] 711103.

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imar Ind. Pvt. Ltd., 25, G. Chandra Ave., Calcutta 013.

na Martin Black (Wire Ropes) Ltd., 14, Princep St., Calcutta 700013.

re Machinery Manufg. Corpn. Pvt. Ltd., 1/A, Vansittart Row, Calcutta 700001.

OCKINETTE

tus Industries Ltd., 16, Coral Merchant St., Madras 600001.

RUCTURALS

veri Structurals, Senthannipuram Golden Rock, Tiruchirapalli 620004.

hardson & Cruddas (1972) Ltd., Byculla Iron Works, Bombay 400008.

UGAR MILL MACHINERY & ACCESSORIES

ul Electro Formers Pvt. Ltd., 2061, Sadashiv Peth, Vijayanagar Colony, Pune 411030.

ckau Wolf New India Engg. Works Ltd., Pimpri, Pune 411018.

lliss & Morcom India Ltd., 6, Little Russel St., Calcutta 700016.

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R. Engg. Works Pvt. Ltd., G.R. House, 86, M. Vasanji Rd., Bombay 400059.

oghly Docking & Engg. Co. Ltd., Botanic Gardens, Howrah 711103.

dian Sugar & General Engg. Corpn., Yamunanagar 135001. Ambala Dist.

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ay Iron Works Pvt. Ltd., Yamunanagar 135001. (Ambala Dist.).

arsen & Toubro Ltd., L. & T. House, Ballard Estate, Bombay 400038.

ational Sugar Inds., 150, Mount Rd., Madras 600006.

avin Engg. Works, 2A, Tripolia, Allahabad 211001.

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hardson & Cruddas (1972) Ltd., Byculla Iron Works, Bombay 400008.

P. Foundries, 123/393, Factory Area, Kanpur 208012.

swati Indl. Syndicate Ltd., P.O. Yamunanagar 135001, Ambala Dist.

x Engrs. & Traders, 10/4, Gurdwara Rd., Meerut 250001.

rd Engg. Co., 40, Strand Rd., Calcutta 700001.

veni Engg. Works Ltd., Naini 211008. (Allahabad Dist.).

ndnagar Inds. Ltd., Construction House, W. and Marg, Bombay 400038.

SUGAR MILLS

Andhra Pradesh

Sugars Ltd., P.B. **2,** Venkatarayapuram, West vari Dist.

Challapalli Sugar Ltd., Lakshmipuram Taluk, Krishna Dist.

Deccan Sugar & Abkhari Co. Ltd., Samalkot, East Godavari Dist.

K. C. P. Ltd., Sugar Factory, Vuyyuru, Krishna Dist.

Kirlampudi Sugar Mills Ltd., Pithapuram, East Godavari Dist.

Nizam Sugar Factory Ltd., Fateh Maidan Rd., P.B. No. 1, Khairatabad, Hyderabad 500004.

Nizamabad Co-op. Sugar Factory Ltd., Sarangpur, Nizamabad Dist.

Shri Rama Sugars & Industries Ltd., Seethanagaram, Srikakulam Dist.

Shri Sarvaraya Sugar Ltd., Chelluru, Ramachandrapuram Taluk, East Godavari Dist.

Sivakami Sugars Ltd., Paidiparru, Tadepalligudem Rd., East Godavari Dist.

Assam

Assam Co-op. Sugar Mills Ltd., Varua Bamungaon, Sibsagar 785640.

Bihar

Belsund Sugar Co. Ltd., P.O. Righa, Muzaffarpur Dist.

Cawnpore Sugar Works Ltd., P.O. Marhowrah, Saran Dist.

Champaran Sugar Co. Ltd., Chanpatia, Champaran Dist.

Gobind Sugar Mills Ltd., P.O.' Motihari, Champaran Dist.

Lohat Sugar Works, Sakri P.O., Darbhanga Dist.

Motilal Padampat Sugar Mills Co. Pvt. Ltd., P.O. Majhaulia, Champaran Dist.

New India Sugar Mills Ltd., P.O. Hasanpur, Darbhanga Dist.

New Swadeshi Sugar Mills Ltd., Narkaliaganj, Champaran Dist.

Rohtas Ind. Ltd., P.O. Dalmianagar, Shahabad Dist.

S. K. G. Sugar Ltd., P.O. Lauria, Champaran Dist.

Samastipur Central Sugar Co. Ltd., Samastipur (Darbhanga Dist.) 848101.

South Bihar Sugar Mills Ltd., Bihta, Patna Dist.

Vishnu Sugar Mills Ltd., Gopalganj, Saran Dist.

Gujarat

Chalthan Surat Vibhag Sahakari Khand Udyog Mandli Ltd., Chalthan, Surat Dist.

Shree Bileshwar Khand Udyog Khedut Sahakari Mandli Ltd., Kodinar, Amreli Dist.

Shri Khedut Sahakar Khand Udyog Mandli Ltd., P.O. Bardoli (Surat Dist.) 394601.

Haryana

Haryana Co-op. Sugar Mills Ltd., Circular Rd., Rohtak 124001.

Panipat Co-op. Sugar Mills Ltd., Gohana Rd., Panipat-Karnal Dist.

Saraswati Sugar Mills, P.O. Yamunanagar, Ambala Dist.

Karnataka

India Sugars & Refineries Ltd., Hospet 583201.

Krishna Sugar Mills Ltd., Krishna Kittur, Belgaum Dist.

Mysore Sugar Co. Ltd., Mandya 571401.

Pandavapura Sahakara Sakhar Karkhana Ltd., Pandavapura R.S., Mandya Dist.

Salar Jung Sugar Mills Ltd., Munirabad R.S., Raichur Dist.

Ugar Sugar Works Ltd., Ugar Khurd, Belgaum Dist.

Kerala

Co-op. Sugar Ltd., Chittur, Menonpara, Palghat Dist.

Mannam Sugar Mills Co-op. Ltd., No. 4324, P.O. Pandalam, Alleppy Dist.

Travancore Sugar & Chemicals Ltd., Valanjavattam, Tiruvalla 689104.

Madhya Pradesh

Bhopal Sugar Ind. Ltd., Sehore, Sehore Dist.

Jaora Sugar Mills Pvt. Ltd., Jaora, Ratlam Dist.

Seth Govindram Sugar Mills, P.O. Mahidpur Rd., Ujjain Dist.

Maharashtra

Ashok Sahakari Sakhar Karkhana Ltd., P.O. Ashokenagar, Kanegaon Factory, Shrirampur 413709.

Belapur Sugar & Allied Ind. Ltd., Harigaon, Ahmednagar Dist.

Bhagwati Sahakari Sakhar Karkhana Ltd., Shahunagar, Kolhapur.

Brihan Maharashtra Sugar Syndicate Ltd., P.O. Shreepur, Solapur Dist.

Gangapur Sahakari Sakhar Karkhana Ltd., Gangapur, Aurangabad Dist.

Girna Sahakari Sakhar Karkhana Ltd., Dabhadi, Nasik Dist.

Godavari Sugar Mills Ltd., Sakarwadi, Ahmednagar Dist.

Hindustan Sugar Mills Ltd., 51, M. Gandhi Rd., Bombay 400023.

Kolhapur Sugar Mills Ltd., Kasaba Bavada, Kolhapur Dist.

Kopargaon Sahakari Sakhar Karkhana Ltd., Kopargaon, Ahmednagar Dist.

Maharashtra Sugar Mills Ltd., P.O. Tilaknagar, Shrirampur, Ahmednagar Dist.

Malegaon Sahakari Sakhar Karkhana Ltd., Malegaon 423203.

Oudh Sugar Mills, Industry House, 159, Churchgate Recl., Bombay 400020.

Phaltan Sugar Works Ltd., Sakharwadi, Satara Dist.

Rahuri Sahakari Sakhar Karkhana Ltd., Shri Shivajinagar, Ahmednagar Dist.

Ravalgaon Sugar Farm Ltd., Ravalgaon, Nasik Dist.

Shetkari Sahakari Sakhar Karkhana Ltd., Sangli 416416.

Shree Dudhganga Vedganga Sahakari Sakhar Karkhana Ltd., Bidri, Kolhapur Dist.

Shree Panchganga Sahakari Sakhar Karkhana Ltd., Ganganagar, Kolhapur Dist.

Shree Shankar Sahakari Sakhar Karkhana Ltd., Sadashivnagar, Solapur Dist.

Shri Changdeo Sugar Mills Ltd., P.O. Puntamba, Ahmednagar Dist.

Shri Chhatrapati Shivaji Sahakari Sakhar Karkhana Ltd., Bhavaninagar, Pune Dist.

Shrigonda Sahakari Sakhar Karkhana Ltd., P.O. Belvandi Sugar Farm, Ahmednagar Dist.

Shriram Sahakari Sakhar Karkhana Ltd., Phaltan, Satara Dist.

Somaiya Sugar Factory, Lakshmiwadi, Via Kopargaon, Ahmednagar Dist.

Terna Shetkari Sahakari Sakhar Karkhana Ltd., Ternanagar, P.O. Dhoki, Osmanabad Dist.

Walchandnagar Ind. Ltd., P.O. Walchandnagar, Dist.

Yeshwant Sahakari Sakhar Karkhana Ltd., Chinta nagar, P.O. Theur, Pune Dist.

Yeshwant Sahakari Sakhar Karkhana Ltd., Yesh Nagar, Akluj, Solapur Dist.

Pondicherry

New Horizon Sugar Mills Pvt. Ltd., P.O. Kandamang Sacrur (Ariyur).

Punjab

Amritsar Sugar Mills Co. Ltd., G. Trunk Rd., Am 143001.

Batala Co.-op. Sugar Mills Ltd., Batala 143505, Gurd Dist.

Doaba Co-op. Sugar Mills Ltd., Nawanshahr, Jullu Dist.

Jagatjit Sugar Mills Co. Ltd., Phagwara, Kapurthala

Malwa Sugar Mills Co. Ltd., Dhuri, Sangrur Dist.

Morinda Co-op. Sugar Mills Ltd., Morinda, Rupar

Rajasthan

Ganganagar Sugar Mills Ltd., Sri Ganganagar.

Mewar Sugar Mills Ltd., Bhupalsagar, Chitorgarh

Shree Keshorai Patan Sahakari Sugar Mills Ltd., Keshoraipatan, Bundi Dist.

Tamil Nadu

Amaravathi Co-op. Sugar Mills Ltd., Maivadi Rd. P.O. Krishnapuram, Coimbatore Dist.

Ambur Co-op. Sugar Mills Ltd., P.O. Vadapudupe Jalarpettai, North Arcot Dist.

Aruna Sugars Ltd., Eraiyur, South Arcot Dist.

Cauvery Sugar & Chemicals Ltd., Pettaivaytalai, T chirapalli Dist.

Deccan Sugar & Abkhari Co. Ltd., P.O. Pugalur S Factory, Thiruchirapalli Dist.

E. I. D. Parry Ltd., Nellikuppam, South Arcot Dist.

Kallakurichi Co-op. Sugar Mills Ltd., Moongilthuraip Thiruvannamalai 606601.

Kothari Sugars & Chemicals Ltd., Kattur, Tiruchira Dist.

Madura Sugars Ltd., Pandiarajapuram, Madurai Di

Madurantakam Co-op. Sugar Mills Ltd., P.O. Pada Chingleput Dist.

National Co-op. Sugar Mills Ltd., 15-B, Mettupatti, Alanganallur, Madurai Dist.

Sakthi Sugars Ltd., P.O. Sakthinagar via Erode, Coi tore Dist.

Salem Co-op. Sugar Mills Ltd., Pettaipalayam, Salem

South India Steel & Sugar Ltd., Mundiyampak South Arcot Dist.

Uttar Pradesh

Ajudhia Sugar Mills, P.O. Rajaka Sahaspur, Morad Dist.

Balrampur Sugar Co. Ltd., Balrampur, Gonda Dist.

Basti Sugar Mills Co. Ltd., Basti 272001.

Bazpur Co-op. Sugar Factory Ltd., Bazpur, Nainital

Deoria Sugar Mills Ltd., Deoria 274001.

Diamond Sugar Mills Ltd., Pipraich, Gorakhpur

Ganesh Sugar Mills, P.O. Anandnagar, Gorakhpur

Gobind Sugar Mills Ltd., P.O. Aira Estate, Lakhim Kheri Dist.

Jaswant Sugar Mills Ltd., Meerut 250001.

amlapat Motilal Motinagar Sugar Mills, Motinagar, Faizabad 224001.

undan Sugar Mills Pvt. Ltd., P.O. Kundannagar, Moradabad Dist.

. H. Sugar Factories & Oil Mills Pvt. Ltd., Kashipur, Nainital Dist.

ord Krishna Sugar Mills Ltd., Saharanpur 247001.

ahabir Sugar Mills Pvt. Ltd., Siswa Bazar, Gorakhpur.

odi Sugar Mills, Modi Nagar 201201. Meerut Dist.

awabganj Sugar Mills Co. Ltd., Nawabganj, Gonda Dist.

udh Sugar Mills Ltd., Hargaon, Sitapur Dist.

unjab Sugar Mills Co. Ltd., Ghugli, Gorakhpur Dist.

aza Buland Sugar Co. Ltd., Rampur 244901.

araya Sugar Mills Pvt Ltd., Sardarnagar, Gorakhpur Dist.

hree Sitaram Sugar Co. Ltd., P.O. Baitalpur, Deoria Dist.

nited Provinces Sugar Co. Ltd., P.O. Seorahi, Deoria Dist.

pper Doab Sugar Mills Ltd., Shamli, Muzaffarnagar Dist.

pper Ganges Sugar Mills Ltd., Seohara, Bijnor Dist.

pper India Sugar Mills Ltd., Khatauli, Muzaffarnagar Dist.

West Bengal

ational Sugar Mills Ltd., Ahmedpur, Birbhum Dist.

Ramnugger Cane & Sugar Co. Ltd., Plassey, Nadia Dist.

hree Radha Krishna Sugar Mills Ltd., Belganga, Murshidabad Dist.

hree Sitaram Sugar Co. Ltd., Thapar House, 25, Brabourne Rd., Calcutta 700001.

ulsipur Sugar Co. Ltd., 9/1, R. K. Rakshit Lane, Calcutta 700007.

SURGICAL INSTRUMENTS

(See under Medical Equipment)

SURVEY INSTRUMENTS

(See under 'Instruments—Scientific' and 'Laboratory Equipment' in this list).

SWITCHES, SWITCHGEARS, SWITCH FUSES & ACCESSORIES—ELECTRICAL

Andhra Pradesh

Controls and Schematics Pvt. Ltd., 1-1-64/1-A, Iftekar Mansion Compd., Musheerabad, Hyderabad 500020.

Switchgear Manufg. Co., C 4 & 5, Ind. Estate, Sanatnagar, Hyderabad 500018.

Bihar

HGEC Ltd., P.O. Thaparnagar, 828205. Dhanbad Dist.

Delhi

Asea Ltd., 301, Bhandari House, 91, Nehru Place, New Delhi 110024.

Associated Switchgears Pvt. Ltd., 28, New Rohtak Rd., New Delhi 110005.

Controls & Switchgear Co., 222, Okhla Ind. Estate, Phase III, New Delhi 110020.

KLK Scientific Inds., 313, Dhirpur Nirankari Colony, Delhi 110009.

M. C. Engineering Co. Pvt. Ltd., 20, Okhla Ind. Est., New Delhi 110020.

[illegible]con, A-55, Panchsheel Enclave, New Delhi 110017.

Swaran Singh & Co., 80, Okhla Ind. Estate, New Delhi 110020.

Gujarat

Electric Control Gear Pvt. Ltd., Rakhial, Ahmedabad 380023.

Jyoti Ltd., Ind. Area, Vadodara 390003.

Jyoti Switchgears Ltd., Mogar 388340. Taluka Anand, Kaira Dist.

Haryana

Cutler Hammer India Ltd., 20/4, Mathura Rd., Faridabad 121001.

Karnataka

Karnataka Switchgears Pvt. Ltd., 5, Sudama Nagar, Bangalore 560027.

Kirloskar Systems Ltd., P.O. Hebbal Agricultural Farm, Bangalore 560024.

Mysore Electrical Ind. Ltd., Yeswantpur, Tumkur Rd., Bangalore 560022.

NGEF Ltd., P. Bag No. 3876, Bangalore 560038.

Kerala

Aluminium Inds. Ltd., Switchgear Divn., Mannar 689622. (Alleppey Dist.).

Ganesh Electricals Ltd., Palghat 678007.

Kerala Electl. & Allied Engg. Co. Ltd., Palghat 678731.

O/E/N India Ltd., 19/88E, Kaloor Rd., Cochin 682018.

Transformers & Electricals Kerala Ltd., Angamally 683572. Ernakulam Dist.

United Electrical Ind. Ltd., Pallimukku, Quilon 691001.

Madhya Pradesh

Heavy Electricals India Ltd., P.O. Piplani, Bhopal 462021.

Maharashtra

Ajmera Ind. & Engg. Works, 20, K. M. Sharma Marg, Bombay 400002.

Anchor Inds., 185, B.T. Compd., Malad West, Bombay 400064.

Asea Ltd., Asea House, Goa St., Bombay 400038.

Asiatic Electric Corpn., Beaumon Chambers, 27/33, Medows St., Bombay 400023.

Balson, 46, Tilak Rd., Ghatkopar, Bombay 400077.

Bhogilal Fabricators Pvt. Ltd., Steelmade Ind. Estate, Bldg. No. 1, Shed No. 2, Marol Maroshi Rd., Bombay 400059.

Bombay Insulated Cables & Wires Co., Podar Chambers, S. A. Brelvi Rd., Bombay 400001.

Bombay Switchgears, Laxmi Woollen Mills Estate, Shakti Mill Lane, Off Dr. E. Moses Rd., Bombay 400011.

Colosseam Engg. Products & Sales Pvt. Ltd., 201, Kaliandas Udyog Bhavan, Near Century Bazar, Bombay 400025.

Crompton Greaves Ltd., 1, Dr. V. B. Gandhi Mrg., Bombay 400023.

Dattatraya Ind., 691/A, Pune-Satara Rd., Pune 411009.

Emco Electricals Pvt. Ltd., 106, Ind. Area, Sion, Bombay 400022.

Hindustan Brown Boveri Ltd., Brown Boveri House, 264-265, Dr. A. Besant Rd., Bombay 400025.

Hindustan Klockner Switchgear Ltd., Prospect Chambers, 68, Dadajee Rd., Bombay 400034.

Indian Engg. Co., 132, Dr. A. Besant Rd., Worli Naka, Bombay 400018.

Jafkay Engg. Inds. Pvt. Ltd., A-21, MIDC Ind. Area, Andheri East, Bombay 400093.

Kaycee Industries Ltd., 32, Nicol Rd., B. Estate, Bombay 400038.
Kiron Textile Ind., Yusuf Bldg., M Gandhi Rd., Bombay 400023.
Kusum Engg. Works, S. V. Rd., Goregaon, Bombay 400062.
Larsen & Toubro Ltd., L & T House, Dougall Rd., Ballard Estate, Bombay 400038.
Metallic Engg. Co., Shanti Nagar, Vakola, Santacruz (East), Bombay 400055.
Metro Electric & Mechanical Engg. Works, Off Savarkar Marg, Bombay 400028.
National Supply and Distributing Agency, 17, Picket Rd., Bombay 400002.
National Switchgear Mfg. Co., 46-47, Bombay Talkies Compd., Malad West, Bombay 400054.
Neptune Electrical Ind., 31, Adhyaru Ind. Estate, Sun Mill Compound, Lower Parel, Bombay 400013.
R. G. Keswani Ind., 132, Dr. A. Besant Rd., Worli Naka, Bombay 400018.
Reunion Engg. Co. Pvt. Ltd., Amar Bldg., Sir P. Mehta Rd., Bombay 400001.
Siemens India Ltd., 134-A, Dr. A. Besant Rd., Worli, Bombay 400018.
Stanley Switchgear Products, Satguru Ind. Estate, Goregaon (E), Bombay 400063.
Tata Merlin & Gerin Ltd., Raj Mahal, 84, V. Nariman Rd., Bombay 400020.
Thakoor Electricals Pvt. Ltd., Post Box 7408, Bombay 400059.
Trinity Electric Syndicate, 154, S. Gandhi Mrg., Bombay 400002.
Vidyut Switchgears Pvt. Ltd., A-12, Nandjyot Ind. Estate, Andheri Kurla Rd., Bombay 400072.
Voltas Ltd., 19, Graham Rd., Ballard Estate, Bombay 400038.

Punjab

Beegee Corpn., 25, Factory Area, Patiala 147002.
Essen Engg. Co. Pvt. Ltd., 371, Ind. Area, Chandigarh 160002.
Indo Asian Traders Pvt. Ltd., Nakoda Rd., Jullundur 144003.
Vikon Electric Works Pvt. Ltd., G.T. Rd., Goraya 144409.

Tamil Nadu

Eswaran & Sons Engineers Pvt. Ltd., 5-7, Second Line Beach, Madras 600001.
Fusegear Electric, Janakiram Colony, Arumbakkam, Madras 600029.
Hindustan Equipment Manufrs., Krishnarayapuram, P.O. Ganapathy, Coimbatore 641008.
Kumar Bros., 61, N. S. C. Bose Rd., Madras 600001.
Macneill & Magor Ltd., 92, Konnur High Rd., Madras [illegible]
Reed Relays & Electronics India Ltd., Madras 600096.
S. & S. Power Switchgear Ltd., 175 1, Anna Salai, Madras 600002.
Southern Switchgear Ltd., Avadi, Madras 600058.
Vivin & Co., Vivin House, Tatabad, Coimbatore 641012.

West Bengal

Andrew Yule & Co., Ltd., 8, Clive Rd., Calcutta 700001.
Asea Ltd., 4, Lyons Range, Calcutta 700001.
Biecco Lawrie Ltd., P-54, Hyde Rd. Extn., Calcutta 700027.
Electric Construction & Equipment Co. Ltd., 9, K.
Rd., Calcutta 700002.
General Electric Co. of India Pvt. Ltd.,
Chittaranjan Ave., Calcutta 700013.
Golden Inds., 10, Jessore Rd., Calcutta 700028.
Hooghly Marine and Engg. Co., 27/2-C,
Calcutta 700001.
Indian Switchgear Corpn., 5A & 5B,
Calcutta 700016.
Industries Syndicate, 7, Chittaranjan Ave.,
700072.
Techmech (India), 7, Swallow Lane, Calcutta
Voltamp Electricals Pvt. Ltd., P-15, New
Calcutta 700073.

SYNTHETIC FIBRE SPINNERS

Delhi

Delhi Cloth & General Mills Co. Ltd., Bara
Delhi 110006.

Gujarat

Gandhidham Spg. & Manufg. Co. Ltd., Adipur 37
Kutch Dist.
Surat Textile Mills Ltd., Varachha Rd., Surat

Haryana

Bhiwani Textile Mills Ltd., P.O. Birla Colony 12
Bhiwani, Hissar Dist.
Elsons Cotton Mills Pvt. Ltd., 23rd Milestone, Ma
Rd., Ballabgarh 121004.
Technological Institute of Textiles, P.O. Birla C
125022. Bhiwani, Hissar Dist.

Jammu and Kashmir

Chenab Textile Mills Ltd., Kathua 184101.

Karnataka

Sujata Textile Mills, Nanjangud 571301.

Madhya Pradesh

Bharat Commerce & Ind. Ltd., P.O. Birlagram
Jiyajeerao Cotton Mills Ltd., P.O. Birlanagar,
474004.

Maharashtra

Kiran Spg. Mills, Kolshet Rd., Thane 400601.
Madhavnagar Cotton Mills Ltd., Bank of Ba
Palton Rd., Bombay 400001.
New City of Bombay Manufg. Co. Ltd., 63, Tukara
Kadam Marg, Bombay 400033.
Podar Mills Ltd., Podar Chambers, S. A.
Bombay 400001.
Raghuvanshi Mills Ltd., 11-12, Haines Rd.,
Bombay 400013.

Punjab

Bharat Commerce & Ind. Ltd., Rajpura 140401.
Dist.

Rajasthan

Aditya Mills Ltd., Madanganj, Kishangarh
Jaipur Spg. & Wvg. Mills Ltd., Podarpur, Jaipur
Rajasthan Textile Mills, Bhawani Mandi 326502.

Tamil Nadu

Narsimha Mills Pvt. Ltd., Kannampalayam, P
[illegible]
Prakash Mills Pvt. Ltd., P.O. Peelamedu,
641004.

Sitalakshmi Mills Ltd., Madurai 625005.

Suguna Mills Pvt. Ltd., Sugunalaya, Bashyakaralu Rd., R. S. Puram, Coimbatore 641002.

Vijayakumar Mills Ltd., Kalayamputhur 624615. *via* Palani, Madurai Dist.

Uttar Pradesh

Elgin Mills Co. Ltd., Civil Lines, Kanpur 208001.

Modi Spg. & Wvg. Mills Co. Ltd., Modinagar 201201.

Swadeshi Cotton Mills, Swadeshi House, Civil Lines, Kanpur 208001.

West Bengal

Bilaspur Spg. Mills & Ind. Ltd., 12, Govt. Place (E), Calcutta 700001.

Birla Jute Manufg. Co. Ltd., P.O. Birlapur 743318-24-Parganas.

General Ind. Society Ltd., 8, India Exchange Place, Calcutta 700001.

India Linoleums Ltd. (Victoria Division), 14, Dr. H. K. Chatterjee St., Ghusury, Howrah 711107.

Jayshree Textile & Ind. Ltd., Rishra 712248.

Shaktigarh Textile & Ind. Ltd., P.O. Barsul 713124. Burdwan Dist.

SYNTHETIC FIBRES & RESINS

Andhra Pradesh

Sirsilk Ltd., Sirpur-Kaghaznagar 504296.

Delhi

J. K. Synthetics Ltd., Ashoka Estate, 24, Barakhamba Rd., New Delhi 110004.

Haryana

Anand Synthetics Ltd., 22 KM., Mathura Rd., Faridabad 121001.

Madhya Pradesh

Gwalior Rayon & Silk Manufg. (Wvg.) Co. Ltd., P.O. Birlanagar, Gwalior 474004.

Shree Synthetics Ltd., Ujjain 456001.

Maharashtra

Baroda Rayon Corpn. Ltd., Hoechst House, 16th Flr., 193 Backbay Reclamation, Nariman Point, Bombay 400021.

Century Enka Ltd., Nirlon House, 254-B, Dr. A. Besant Rd., Worli, Bombay 400025.

Century Rayon, Industry House, 159, Churchgate Recl., Bombay 400020.

Chowgule & Co. (Hind) Ltd., India House, 5th Flr., Walchand Hirachand Mrg., Bombay 400001.

Garware Nylons Ltd., Chandermukhi, Nariman Point, Bombay 400021.

Indian Rayon Corpn. Ltd., Industry House, 159, Churchgate Recl., Bombay 400020.

J. K. Synthetics Ltd., ' Sarnath ', 10th Flr., 59-B, Bhulabhai Desai Rd., Bombay 400026.

Krislon Synthetics Pvt. Ltd., 615, Churchgate Chambers, 5, New Marine Lines, Bombay 400020.

Modipon Ltd., 7th Flr., 77, Mittal Chambers, Nariman Point, Bombay 400021.

National Rayon Corpn. Ltd., Ewart House, Homi Mody St., Bombay 400023.

Nirlon Synthetic Fibres & Chemicals Ltd., Nirlon House, Dr. A. Besant Rd., Bombay 400018.

Shree Synthetics Ltd., Shree Niwas House, H. M. Somani Marg, Bombay 400001.

Rajasthan

Banswara Syntex Ltd., C-235, Dayanand Mrg., Jaipur 302004.

Jekrilon Fibres & Yarns, Kota 324001.

Shriram Rayons, Shrirampur, Kota 324001.

Tamil Nadu

Shriram Fibres Ltd., 17/3-B, Nungambakkam High Rd., Madras 600034.

South India Viscose Ltd., Shanmuga Manram, Race Course, P.B. 1396, Coimbatore 641018.

Travancore Rayons Ltd., Indian Overseas Bank Bldg., 151-A, Mount Rd., Madras 600002.

Uttar Pradesh

Modipon Ltd., Post Box No. 11, Modinagar 201204.

West Bengal

Kesoram Rayon, 10, Camac St., Calcutta 700017.

SYNTHETIC GEM

Indo-Swiss Synthetic Gem Mfg. Co. Ltd., 13/239, Main Rd., Mettupalayam 641301 (Coimbatore Dist.).

SYRINGES

Bharat Surgical Inds. Pvt. Ltd., Sion-Chembur Rd., Bombay 400070.

Hindustan Syringe Pvt. Ltd., Indl. Area, Faridabad 121001. (Haryana).

Steriware Pvt. Ltd., Plot No. 16, Sector 24, Faridabad 121001. (Haryana).

Suru Chemicals & Pharmaceuticals Pvt. Ltd., C-3, Sona Udyog, Parsi Panchayat Rd., Andheri East, Bombay 400069.

Top Syringe Mfg. Co., Mira, Vivekananda Rd., Bombay 400068.

TABLET MAKING MACHINES

Macneil & Mager Ltd., 34/1, Diamond Harbour Rd., Calcutta 700027.

TANKS & PRESSURE VESSELS

Bharat Tank & Steel Co., 64, Podar Chambers, Parsi Bazar St., Bombay 400001.

Hind Tank Mfg. Co., 6th Kumbharwada Le., Bombay 400004.

Jayesh Engg. Works, Mount Rd., Mazgaon, Bombay 400010.

Kaveri Structurals, Senthannipuram, Golden Rock, Tiruchirapalli 620004. (Tamil Nadu).

Maharashtra Tank Mfg. & Engg. Co., Cooper Compd., Trimbak Parashuram St., Golpitha, Bombay 400004.

Mettur Beardsell Ltd., Heliplastics Dn., Jeroo Bldg., 137, M. Gandhi Rd., Bombay 400023.

Mistry Prabhudas Manji, 57B, 2nd Pathan St., Bombay 400004.

National Engg. Inds., 32, Jairajbhai Le., Foras Rd., Bombay 400008.

Pheros & Co. Pvt. Ltd., Indl. Est., Gauhati 781021. (Assam).

Rattan Inds., LBS Mrg., Bhandup, Bombay 400078.

Sahajanand Engg. Works Pvt. Ltd., Donde Marg, Bombay 400015.

Tas Engg. Co. Pvt. Ltd., 333, A. Rehman St., Bombay 400003.

Technofab Engg. Pvt. Ltd., 10, Nizamuddin East, New Delhi 110013.

Vijaya Tanks & Vessels Pvt. Ltd., 93, LBS Mrg., Mulund, Bombay 400080.

Westwork Engineers Ltd., 5-D, Vulcan Insc. Bldg., Veer Nariman Rd., Bombay 400020.

TAPE RECORDERS

Bhatty Electronics Corpn., 98, Ind. Estate, Kandivli West, Bombay 400067.

Capital Electronics, 12, Chowringhee Rd., Calcutta 700013.

Chandrika Electronics Ltd., 139, Sardar Patel Rd., Secunderabad 500003.

General Radio Corpn., 2/2, Jhandewalan Ind. Scheme, New Delhi 110055.

Jai Electronic Ind. Pvt. Ltd., 114, Shivaji Park, Bombay 400028.

Kartari Electronics, Wagle Ind. Estate, Thane 400604.

Megha Overseas Pvt. Ltd., 1137, Chandni Chowk, Delhi 110006.

Mulchandani Electrical & Radio Inds. Ltd., Sukh Sagar, N. S. Patkar Marg, Bombay 400007.

Murphy India Ltd., Dr. Shirodkar Rd., Off Hospital Ave., Parel, Bombay 400012.

Parry Engg. & Electronics Pvt. Ltd., Opp. Jain Temple, M. Gandhi Rd., Ahmedabad 380001.

Singh Radio Co. India Pvt. Ltd., 21, Daryaganj, New Delhi 110002.

Singh Trading Co., 9, Blackers Rd., Madras 600001.

Suman Electronics, 24, Daryaganj, New Delhi 110002.

Televista Electronics Pvt. Ltd., 39, Okhla Ind. Estate, New Delhi 110020.

Weston Electroniks Pvt. Ltd., 243, Okhla Ind. Estate, New Delhi 110020.

(Also see under Cassette Tape Recorders.)

TAPES — RECORDING

Tarzian India Pvt. Ltd., 23A, Najafgarh Rd., New Delhi 110015.

Vimal Enterprises Pvt. Ltd., Main Rd., Umbergaon 396170. Gujarat.

TAPES & WEBBINGS

Amar Tapes & Allied Inds., 21/24, Indl. Town, Rajajinagar, Bangalore 560044.

Artex Products, 2/2, Dwarkanath Bhuvan, Katrak Rd., Wadala, Bombay 400031.

Bhor Inds. Ltd., 392, V. Savarkar Mrg., Bombay 400025.

Fabrika Polyarn, Junction of Tata & Shastri Mrg., Bhandup, Bombay 400078.

Freemans Sales Pvt. Ltd., Ferozepur Rd., Ludhiana 141001.

Magnotape Co. Pvt. Ltd., 34B, Chandivli Farm, Saki Vihar Rd., Bombay 400070.

Million Tape Mfg. Co. (India) Regd., 2640, Hamilton Rd., Delhi 110006.

Motilal Dulichand, 20, Indl. Est., Kanpur 208012.

Todi & Co., Tulsi Pipe Rd., Lower Parel, Bombay 400013.

Vanaja Ribbons & Allied Inds., 27, C. K. Channappa Layout, Bangalore 560027.

TARPAULINS, TENTS ETC.

Assam

Assam Canvas Craft Ind., Ind. Estate, Gauhati 781001.

Delhi

Ashok Tent Inds., Shaheed Bhagat Singh Mrg., Lady Hardinge Rd., New Delhi 110001.

Bharat Tent House, Subzimandi, Delhi 110007.

Kay Tent Inds., 64/2253, Gurdwara Rd., Karol
New Delhi 110005.

Sarna Web-Equipment Manufg. Co., 7197, Qutab
New Delhi 110006.

Karnataka

Cargo Tarpaulin Industries, Nr. State Bank of Hydera
J. C. Rd., Bangalore 560002.

Maharashtra

A-1 Tarpaulin Inds., 75, Dontad St., Masjid Bunder
Bombay 400009.

Ajit Packing Inds., 184, Bhat Bazar, Bombay 4000

Alibhai Sharafali Rasiwala, 16, Bhandari St., Bom
400009.

Calcutta-Proofing Co., Chinchpokli Cross Lane, Bom
400027.

Daisy Trdg. Corpn., 402, Navjivan Bldg., 125/27,
Syed St., Bombay 400003.

Damji Premji & Co., 298, Y. Meherally Rd., Bom
400003.

Dwarkadas Velji Talpatriwala, 135/39, Kazi Syed
Bombay 400003.

G. Morarji & Co., 245, Y. Meherally Rd., Bombay 400

Hindustan Trading Corpn., 117, Naoroji Hill Rd., Bom
400009.

Jeram Shivji & Sons, 138, Yusuf Meherally Rd., Bom
400003.

Joshi Ramji Moorji, 265, Y. Meherally Rd., Bom
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Kooverji Karamshi Talpatriwala, Gaumukh Bhavan, Opp. Masjid Stn., Bombay 400009.

Lakhimchand Cooverji & Co., 297, N. Natha St., Bombay 400009.

Maharashtra Canvas Depot, 142, Y. Meherally Rd., Bombay 400003.

Mangaldas Ranchoddas, 251, Y. Meherally Rd., Bombay 400003.

Mavji Devji Talpatriwala, 146/48, S. Tukaram Rd., Dana Bunder, Bombay 400009.

Morarji Peraj & Co. (Talpatriwala), 138, Masjid Bunder Rd., Bombay 400003.

Rainproof, V. Devidyal Cross Rd., No. 5, Bombay 400086.

Ratanshi Lalji, Rasul Jivaji Comp., Jacob Circle, Bombay 400011.

Shah Shivji Vali & Co., 184, Narshi Natha St., Bombay 400009.

Swastik Tarpaulins Manufg. Co., 66/68, Dontad St., Bombay 400009.

T. Lakhamsi Ladha & Co., 298, Narsi Natha St., Bombay 400009.

V. Kishorchandra & Co., 346, Samuel St., Bombay 400003.

Tamil Nadu

Betala Industries, 16-A, Ramanan Rd., Madras 600001.

Binny & Co., Ltd., 7, Armenian St., Madras 600001.

Calcutta Canvas Co., 144-A, Naick St., Madras 600001.

Mamidi Manavala Chetty & Co., 286, N. S. C. Bose Rd., Madras 600001.

Sunrise Trading Co., 7-D, Perambur Barracks Rd., Madras 600007.

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Kanpur Tent Factory, 89/208, Bansmandi, Kanpur 208001.

Kumar Weaving & Inds. Works, Indl. Area, Kanpur 208012.

West Bengal

Apollo Tent Tarpaulins Co., P-4, New Howrah Bridge Approach Rd., Calcutta 700001.

Bengal Tent Factories Pvt. Ltd., 40, Dharamtolla Rd., Belur 711402.

Bengal Waterproof Works Ltd., 41, Shakespeare Sarani, Calcutta 700016.

Birkmyre Bros. Pvt. Ltd., 87, Stephen House, Calcutta 700001.

Calcutta Proofing & Paulin Goods Manufg. Pvt. Ltd., 62, Alipore Rd., Calcutta 700027.

Calcutta Tent Mfg. Co., 1, Chitpurghat Lane, Calcutta 700002.

Goyalka Bros., P-4, New Howrah Bridge Approach Rd., Calcutta 700001.

Gungadhur Banerjee & Pvt. Ltd., 'Bakulia House', Kidderpore, Calcutta 700023.

India Canvas & Tarpaulin Co., 81A, C. R. Avenue, Calcutta 700012.

India Waterproof Ltd., 13, Brabourne Rd., Calcutta 700001.

International Traders Corpn., 40, Strand Rd., Calcutta 700001.

Jardine Henderson Ltd., 4, Clive Row, Calcutta 700001.

Jem & Co., Mercantile Bldgs., Lall Bazar St., Calcutta 700001.

Madhoprasad Mahabirprasad (Supplies) Pvt. Ltd., Synagogue St., Calcutta 700001.

Modi Ind., 55, Canning St., Calcutta 700001.

New India Proofing Co., Calso Park, Calcutta 700039.

Premier Canvas Co., 28, N. Subhas Rd., Calcutta 700

Shew Prosad Bishnu Prosad, 11, D. Rakhit Lane, Calcut 700005.

Sircar Bros. Pvt. Ltd., 26-1, S. N. Roy Rd., Calcut 700001.

Sunrise Trdg. Co., 3/C, N. Lohia Lane, Calcutta 7000

Tent Tarpaulin Indl. Corpn., 3/C, N. Lohia Lane, Calcut 700007.

Textile Waste Co., 113-C, N. Subhas Rd., Calcutta 700

TEA—INSTANT

Food Specialities, Chevamtavadi Post, Nilgiri Hil Tamil Nadu.

Tata Finlay Ltd., P.O. Munnar 685612. Kerala.

TEA GARDEN MACHINERY

Ajco Ltd., 9, Wallace St., Bombay 400001.

Andrew Yule & Co. Ltd., 8, Clive Row, Calcutta 700

Aluminium Inds. (Assam) Pvt. Ltd., 22A, N. Subhas R Calcutta 700001.

Bery Machinery Manufrs. Pvt. Ltd., 135, B.R.B. B Rd., Calcutta 700001.

Bharat Engg. Ind., 16, Bonefield Lane, Calcutta 700001

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Taps & Dies Ltd., P-17, G. Chandra Ave., Calcutta 700013.
Teamco Machineries (Bengal) Pvt. Ltd., 4, G. C. Avenue, Calcutta 700013.
Trade & Industry (Assam) Ltd., 20, Mangoe Lane, Calcutta 700001.

TEFLON PRODUCTS

J. Khushaldas & Co., 'JK' Chambers, 78/83, Nagdevi St., Bombay 400003.

TELECOMMUNICATION EQUIPMENT

Ericsson India Ltd., 15, Community Centre, Suraj Parbat, New Delhi 110024.
G. K. Trading Co., 46, Mohatta Mkt., Palton Rd., Bombay 400001.
Indian Telecommunication Equipment Co., 235, Haqiqat Nagar, Delhi 110009.
Jayant Inds., 33, Naik Nivas, 30, Benham Hall Lane, Bombay 400004.
Metro Ind. Works, 95, B. Ghosh Rd., Calcutta 700040.
Superphone India, 93, B. Desai Rd., Bombay 400036.

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Bharat Television Ltd., Industries Manor, Prabhadevi, Bombay 400025.
Bhatty Electronics Corpn., 98, Ind. Est., Kandivli, Bombay 400067.
Bigston T. V., C-223, Rewari Ind. Area, Mayapuri Phase II, New Delhi 110027.
Dynavision Ltd., 1, Padmanabhanagar, Guindy Rd., Madras 600020.
Electronics Corp. of India Ltd., Ind. Dev. Area, Cherlapalli, Hyderabad 500762.
Ferry Electronics, 291, Lajpatrai Mkt., Delhi 110006.
Goa Electronics Ltd., Shree Saraswati Mandir Bldg., 18th June Rd., Panaji 403001. (Goa).
Kartari Electronics, Wagle Ind. Estate, Thane 400604.
Lal Bros., 2, Ritchie St., Madras 600002.
Mac Electronics, 18, Steel Mould Indl. Estate, Nagarvel Hanuman Rd., Sukhramnagar, Ahmedabad 380023.
Mandelia Electronics Pvt. Ltd., Century Bhavan, Dr. A. Besant Rd., Bombay 400025.
Mecotronics Pvt. Ltd., 11A/1, Mount Rd., Madras 600002.
Polestar Electronics Pvt. Ltd., 71/11, Mowbrays Rd., Alwarpet, Madras 600018.
Sudarshan Electronic Corpn., 28, Jolly Maker Chamber 1, Nariman Point, Bombay 400021.
Suman Electronics, 24, Daryaganj, New Delhi 110002.
Sundarsons Electronics, Vijay Vihar, C.S.T. Rd., Bombay 400071.
Telerad Pvt. Ltd., Chandivali, Saki Vihar Rd., Bombay 400072.
Televisco (Eastern) Pvt. Ltd., 2, Waterloo St., Calcutta 700069.
Television & Components Pvt. Ltd., G.I.D.C. Ind. Area, Naroda, Ahmedabad 382330.
Televista Electronics Pvt. Ltd., 79, Dr. A. Besant R
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Weston Electroniks Ltd., 243, Okhla Ind. Estate, Ne
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TESTING MACHINES

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Fuel Instruments & Engrs. Pvt. Ltd., Ichalkaranji 41611
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Ultra Colour Corpn., Opp. Old Khadia Chowky, S
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Wolf, Mulund, Bombay 400080.
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Lines, Bombay 400020.
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Pune 411009.
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Enterprise & Management Pvt. Ltd., 89, Medows St
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Eskay Chemical Corpn., 22-D, Parsi Bazar S
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Fibrolite Auxiliaries, Shamnagar, Jogeshwari,
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Hico Products Pvt. Ltd., Mogul Lane, Mahim, Bombay 400016.

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Indokem Ltd., Fort House, 221, Dr. D. Naoroji Rd., Bombay 400001.

Kumudchandra & Co., 29, Dalal St., Bombay 400023.

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New Nagauri Card Can Mfg. Co., 97-E, Morland Naya Nagar, Bombay 400008.

New Standard Engg. Co. Ltd., NSE Estate, Rd., Goregaon (East), Bombay 400063.

Prabhat Engg. Co., 52/54, Popatwadi, Kalbadevi Rd., Bombay 400002.

Precision Textile & Engg. Components Pvt. Ltd., 212, Adhyaru Ind. Estate, Sun Mill Compd., Lower Parel, Bombay 400013.

Primatex Machinery Pvt. Ltd., Dhanraj Mahal, C.M.S. Mrg., Bombay 400039.

Sardar Textile Engrs. Pvt. Ltd., Seksaria Ind. Estate, S. V. Rd., Malad, Bombay 400064.

Sarvodaya Reeds Mfg. Co., 137/41, Samuel St., (Khoja Galli), Bombay 400009.

Shakti Textile Engrs. Pvt. Ltd., Manohar Indl. Estate, Malad, Bombay 400064.

Timbco Textile Ind., 22, Bombay Timber Mkt., Reay Rd., Bombay 400010.

Western India Tanneries Ltd., 2A, Dharavi Rd., Bombay 400017.

Punjab

Sachdeva Engg. Works, P.O. Rayon Silk Mills, Chheharta, Amritsar 143001.

Tamil Nadu

Guruprasad Textile Engrs., 9/8, Ramarkovil St., Ramnagar, Coimbatore 641009.

Jayalakshmi Engg. Mfrs. Pvt. Ltd., P. B. No. 5306, Coimbatore 641029.

L. G. Balakrishna & Bros. Ltd., Ganapathy Works, Coimbatore 641006.

Nathan Inds., Ganapathy, Coimbatore 641006.

Ramakrishna Industrials Pvt. Ltd., Peelamedu, Coimbatore 641004.

Textool Co. Ltd., P.O. Ganapathy, Coimbatore 641006.

Universal Machine Works, 8/76-A, 100 Ft. Rd., Tatabad, Coimbatore 641012.

West Bengal

Bharat Ind. Corpn. Pvt. Ltd., 13, N. Kar Lane, Salkhia, Howrah 711106.

Jumac Spares Mfg. Corpn., 3, Princep St., Calcutta 700013.

Machinery Mfrs. Corpn. Ltd., P61-3, Circular Garden Reach Rd., Calcutta 700043.

Ravi Machine Tools & Engg. Works, 12/1, Chintamoni Dey Bathing Ghat Rd., Ramakrishnapur, Howrah 711101.

TEXTILE MILLS

Andhra Pradesh

Abirami Cotton Mills Pvt. Ltd., Sulurpeta 524121 (Nellore Dist.).

Adoni Spg. and Wvg. Co., P. B. No. 42, Adoni 518301.

Andhra Co-op. Spinning Mills Ltd., P. B. No. 36, Timmancherla, Guntakal 515802, Anantapur Dist.

Andhra Cotton Mills Ltd., Shriniwasa Nagar, Proddatur, 516360 (Cuddapah Dist.).

Azam Jahi Mills, Narsampet Rd., Warangal 506002.

Chirala Co-op. Spg. Mills Ltd., Chirala 523155, Guntur Dist.

Chittoor Textiles Ltd., Madras-Bangalore Trunk Rd., Chittoor 517001.

Dewan Bahadur Ramgopal Mills Ltd., Elchiguda, Secunderabad 500003.

Hemalatha Textiles Ltd., Pedakakani, Guntur 522509.

Jayanti Ramchandrappa Shetty Mills Pvt. Ltd., Raydurg 515865.

Karimnagar Co-op. Spinning Mills Ltd., Ramagundam 505208.

Madanapalle Spg. Mills Ltd., C.T.M. P.O. 517319, Chittoor Dist.

Natraj Spg. & Wvg. Mills, Nirmal 504106 (Adilabad Dist.).

Penguin Textiles Ltd., Tarnaka, Uppal, Hyderabad 500039.

Rayalaseema Mills Ltd., Rayanagar, Adoni 518301.

Sarvaraya Textiles Ltd., Beach Rd., Kakinada 533001.

Sree Akkamamba Textiles Ltd., Venkatarayapuram, Tanuku 534211.

Sree Satya Narayana Spg. Mills Ltd., P. B. No. 3, Venkatarayapuram, Tanuku 534211.

Sri Venkatachalapathi Mills Ltd., Padmavathinagar, Tirupati 517501.

Super Spg. Mills Ltd., Kirikera 515211, Anantpur Dist.

Suryalakshmi Cotton Mills Ltd., 77, M. Gandhi Rd., Secunderabad 500003.

Telangana Spinning & Weaving Mills Ltd., Balanagar, Hyderabad 500003.

Yemmiganur Spinning Mills Ltd., Yemmiganur 518360. (Bellary Dist.).

Assam

Assam Cotton Mills, Singlimara Rd., Chariduwar, Darang 784111.

Associated Ind. (Assam) Ltd., Chandrapur 781150 (Kamrup Dist.).

Bihar

Bihar Co-op. Weavers Spg. Mills Ltd., Mokameh 803302.

Bihar Cotton Mills Ltd., Phulwarishariff, Patna 801505.

Dumraon Textiles Ltd., Dumraon 802119.

Mahalakshmi Fibres & Ind. Ltd., Ormanjhi 835219.

Delhi

Ajudhia Textile Mills, Azadpur, P.O. Ajudhia Mills, Delhi 110033.

Birla Cotton Spinning & Weaving Mills Co. Ltd., Birla Lines, Delhi 110007.

Delhi Cloth & General Mills Co. Ltd., Bara Hindu Rao, Delhi 110006.

Swatantra Bharat Mills Ltd., Najafgarh Rd., New Delhi 110015.

Goa

Chowgule Textile Mills Ltd., Quepem 403705.

Goa Textiles Ltd., Marmagao 403601.

Gujarat

Ahmedabad Advance Mills Ltd., Outside Delhi Gate, Ahmedabad 380001.

Ahmedabad Cotton Manufg. Co. Ltd., No. 17 Outside Sarangpur Gate, Ahmedabad 380001.

Ahmedabad Kaiser-I-Hind Mills Co. Ltd., Outside Raipur Gate, Ahmedabad 380022.

Ahmedabad Laxmi Cotton Mills Co. Ltd., Outside Raipur Gate, Ahmedabad 380022.

Ahmedabad Manufg. & Calico Printing Co. Ltd., (Calico Mills), Outside Jamalpur Gate, Ahmedabad 380022.

Ahmedabad New Cotton Mills Co. Ltd., Near Khokhra Mehmedabad, Ahmedabad 380008.

Ahmedabad New Textile Mills Co. Ltd., Outside Raipur Gate, Ahmedabad 380022.

Ahmedabad Shri Ramakrishna Mills Co. Ltd., Gomtipur Rd., Ahmedabad 380021.

Ajit Mills Ltd., Rakhial Rd., Ahmedabad 380021.

Aruna Mills Ltd., Naroda Rd., Ahmedabad 380002.

Arunoday Mills Ltd., Morvi 363641.

Arvind Mills Ltd., Naroda Rd., Ahmedabad 380002.

Aryodaya Ginning & Manufg. Co. Ltd., Asarva Rd., Ahmedabad 380016.

Aryodaya Spinning & Weaving Co. Ltd., Asarwa Rd., Ahmedabad 380016.

Asarwa Mills Ltd., Asarwa Rd., Ahmedabad 380016.

Asoka Mills Ltd., Naroda Rd., Ahmedabad 380002.

Baroda Spinning & Weaving Co. Ltd., Near Badra Pani Gate, Vadodara 390001.

Bechardas Spinning and Weaving Mills Co. Ltd., Rakhial, Ahmedabad 380021.

Bhalakia Mills Co. Ltd., Kankaria Rd., Ahmedabad 380008.

Bharat Suryodaya Mills Co. Ltd., Amraiwadi, Ahmedabad 380008.

Bharat Vijaya Mills Ltd., Seven Garnala, Kalol 382721.

Bihari Mills Ltd., Mithipur Khokhra, Mehmedabad, Ahmedabad 380008.

Broach Textile Mills Pvt. Ltd., M. Gandhi Rd., Bharuch 392001.

Commercial Ahmedabad Mills Co. Ltd., Near Idgah Chowki, Asarwa, Ahmedabad 380016.

Gaekwar Mills Ltd., Bilimora 396321.

Gandhidham Spg. & Manufg. Co. Ltd., Adipur 370205, Kutch.

Girdhardas Harivallabdas Mills Ltd., Near Girdhanagar Rly. Crossing, Ahmedabad 380016.

Jupiter Textile Mills, Dadhechi Rd., Ahmedabad 380001.

Kanti Cotton Mills Pvt. Ltd., Mill Rd., Surendranagar 363001.

Mafatlal Fine Spinning & Manufg. Co. Ltd., Vejalpur Rd., Navsari 396445.

Mahalaxmi Mills Ltd., Vartej Rd., Bhavnagar 364001.

Maharana Mills Pvt. Ltd., Porbandar 360575.

Mahendra Mills Ltd., Kalol, N. Gujarat 382721.

Maheshwari Mills Ltd., Shahibag Rd., Ahmedabad 380004.

Maneklal Harilal Spinning & Manufg. Co. Ltd., Saraspur, Ahmedabad 380018.

Manjushri Textiles, Shahibag, Ahmedabad 380004.

Marsden Spinning & Manufg. Co. Ltd., Rakhial Rd., Ahmedabad 380021.

Mihir Textiles Ltd., Mithipur, Ahmedabad 380008.

Monogram Mills Co. Ltd., Rakhial Rd., Ahmedabad 380021.

Nagri Mills Co. Ltd., Rajpur Rd., Ahmedabad 380021.

Navjiwan Mills Pvt. Ltd., Kalol 382721.

Navsari Cotton & Silk Mills Ltd., Vejalpore Rd., Navsari 396445.

New Asarwa Mills Pvt. Ltd., Saraspur, Ahmedabad 380018.

New Commercial Mills Co. Ltd., Naroda Rd., Ahmedabad 380002.

New Gujarat Cotton Mills Ltd., Outside Dariapur Gate, Ahmedabad 380016.

New Jehangir Vakil Mills Co. Ltd., Nilambag Rd., Bhavnagar 364001.

New Maneckchowk Spinning and Weaving Co. Ltd., Opp. [illegible]

New Rajpur Mills Co. Ltd., Gomtipur Rd., Ahmedabad 380021.

New Shorrock Spinning & Manufg. Co. Ltd., [illegible] Ahmedabad 380016.

New Swadeshi Mills of Ahmedabad Ltd., Naroda R Ahmedabad 380002.

Niranjan Mills Pvt. Ltd., Falsawadi Rd., Surat [illegible]

Nutan Mills Ltd., *via* Vora's Roja, Anil Rd., [illegible] 380002.

Patel Mills Co. Ltd., Gomtipur Rd., Ahmedabad [illegible].

Petlad Bulakhidas Mills Co. Ltd., Opp. Petlad S[illegible] Petlad 388450.

Raipur Manufg. Co. Ltd., Outside Saraspur [illegible] Ahmedabad 380021.

Rohit Mills Ltd., Khokhra Mehmedabad, [illegible] 380008.

Rustom Jehangir Vakil Mills Co. Ltd., Dudheshwar Rd Ahmedabad 380001.

Sadhana Textile Mill Pvt. Ltd., Ranjit Sagar Rd., Jamnagar 361001.

Sarangpur Cotton Manufg. Co. Ltd., Outside Raipur Gate Ahmedabad 380022.

Saraspur Mills Ltd., Saraspur Rd., Ahmedabad 380018.

Saurashtra Co-op. Spinning Mills Ltd., Limbdi [illegible].

Sayaji Mills, Near Old Rly. Stn., Vadodara [illegible].

Shri Ambika Mills Ltd., Kankaria, Ahmedabad 380008.

Shri Arbuda Mills Ltd., Rakhial Rd., Ahmedabad 38002

Shri Bansidhar Spinning & Weaving Mills Ltd., Narod Rd., Ahmedabad 380002.

Shri Prithvi Cotton Mills Ltd., M. Gandhi Rd., Bharuc 392001.

Shri Shubhlaxmi Mills Ltd., Station Rd., Cambay [illegible]

Shri Vivekanand Mills Ltd., Rakhial Rd., Ahmedaba 380021.

Shri Yamuna Mills Co. Ltd., Pratapnagar, Vadodar 390004.

Sidhpur Mills Co. Ltd., Bindu Sarovar Rd., Sidhpur 38415

Silver Cotton Mills Co. Ltd., Near Jaganath Mahadev Amraiwadi Rd., Ahmedabad 380008.

Soma Textiles, Rakhial Rd., Ahmedabad 380021.

Surat Cotton Spinning & Weaving Mills Pvt. Ltd., Nawab wadi, Surat 395001.

Surat District Co-op. Spinning Mills, Varachha Rd. Surat 395003.

Surat Textile Mills Ltd., Varachha Rd., Surat 39[illegible]

Tarun Commercial Mills Ltd., Outside Kalupur Gate Railwaypura, Ahmedabad 380002.

Vijaya Mills Co. Ltd., Naroda Rd., Ahmedabad 3[illegible].

Vikram Mills Ltd., Outside Saraspur Gate, [illegible]pur Ahmedabad 380021.

Haryana

Bhiwani Textile Mills, Birla Colony, Bhiwani [illegible]

Elsons Cotton Mills Pvt. Ltd., 23rd Milestone, [illegible] Rd., Ballabgarh 121004.

Gopichand Textile Mills Ltd., Hissar Rd., Sirsa [illegible]

Hissar Textile Mills, Hissar 125002.

Mohan Spg. Mills, Circular Rd., Rohtak 124001.

Rohtak Textile Mill Ltd., Circular Rd., Rohtak 124[illegible]

Technological Institute of Textiles, Bhiwani 125021.

Shree Saraswati Spinning Mills, P.O. Birla C[illegible] Bhiwani 125021.

Usha Spinning & Weaving Mills Ltd., 12/1, [illegible] Mathura Rd., Faridabad 121001.

Jammu & Kashmir

Chenab Textile Mills, Jammu Main Rd., Kathua 18[illegible]

Karnataka

Bellary Spinning & Weaving Co. Ltd., Vinayaknagar, Hospet Rd., Bellary 583101.
Bhadra Spinning Mills Pvt. Ltd., Magadi Rd., Dasarahalli, Bangalore 560010.
Bijapur Co-op. Spinning Mills Ltd., Near Bijapur Rly. Stn., Bijapur 586101.
Binny Ltd., No. 1, Agraharam Rd., Bangalore 560023.
Davangere Cotton Mills Ltd., P. B. No. 201, Davangere 577002.
Gokak Mills Ltd., Gokak Falls, Belgaum 590001.
Mahaboob Shahi Kulbarga Mills, Gulbarga 585101.
Mahadev Textile Mills, P. B. No. 35, Hubli 580020.
Minerva Mills, Magadi Rd., Bangalore 560023.
Nandi Hasbi Textile Mills Pvt. Ltd., Nargund 582207, Dharwar Dist.
Ramkumar Mills Pvt. Ltd., No. 1, Subramanyapuram, Bangalore 560011.
Ramkumar Mills Pvt. Ltd., No. 2, Rajajinagar, Bangalore 560010.
Shree Ganesar Textile Mills Ltd., P. B. No. 23, Davangere 577001.
Shree Kathiresan Spinning Mills, Garehatti, Chitradurga 577501.
Sree Chandrodaya Mills Ltd., Chitradurga Rd., Davangere 577001.
Sree Siddeswara Textile Mills Pvt. Ltd., P. B. No. 78, Davangere 577001.
Sree Suryodaya Mills Pvt. Ltd., Yeshwantpur, Bangalore 560022.

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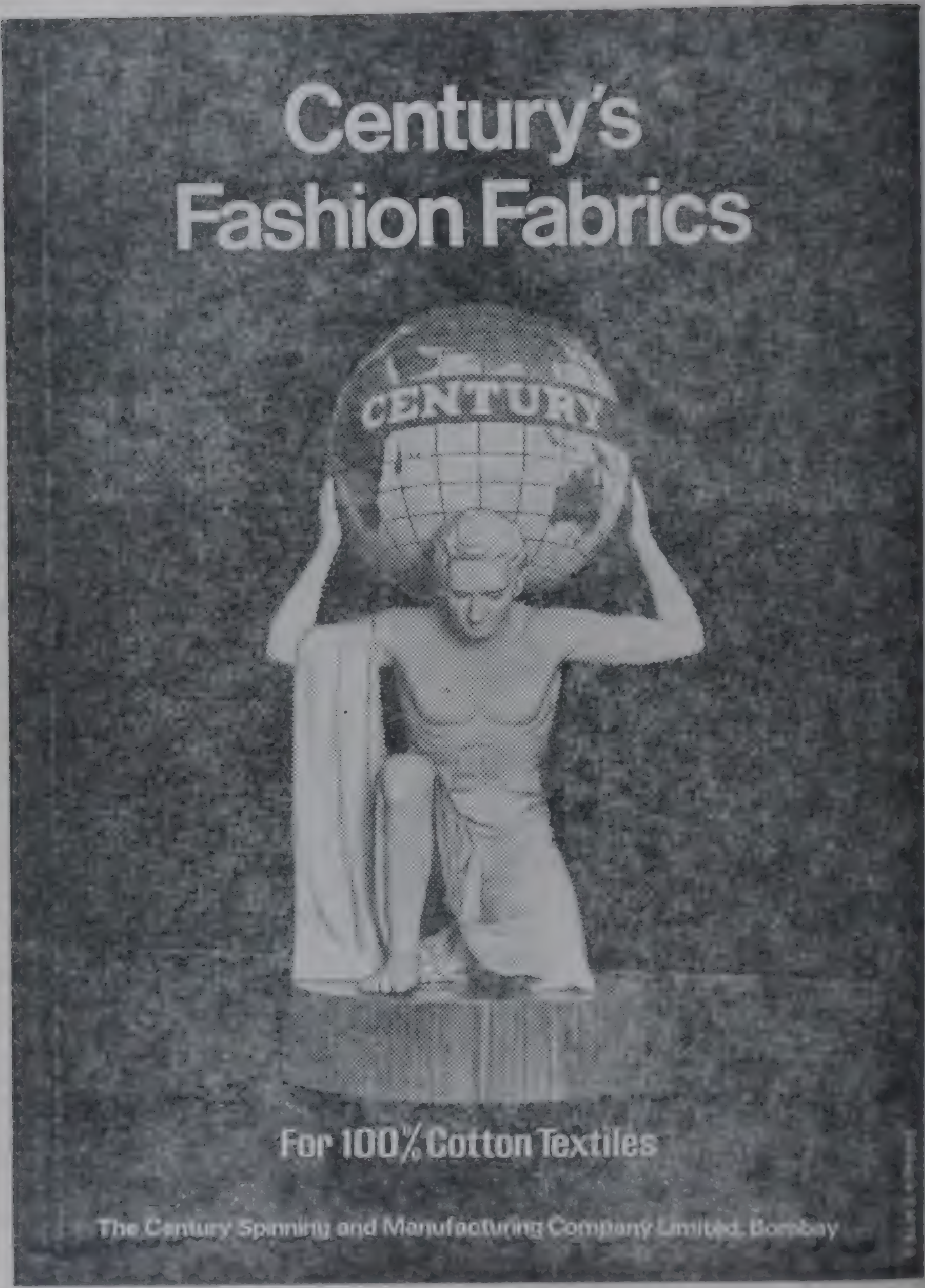
Sri Anjaneya Cotton Mills Pvt. Ltd., Davangere 577001.
Sri Krishnarajendra Mills Ltd., Bangalore Rd., Mysore 570003.
Sujata Textile Mills, Nanjangud 571301.

Kerala

Alagappa Textiles (Cochin) Ltd., Alagappanagar 680302, Trichur Dist.
Asok Textiles Pvt. Ltd., Asokapuram, Alwaye 683101.
Calicut Modern Spinning & Weaving Mills Ltd., Somasundarapuram, Chelambra, Kozhikode 673634.
Cannanore Co-op. Spinning Mills Ltd., Cannanore 670006.
Cannanore Spg. & Wvg. Mills Ltd., P. B. No. 204, Cannanore 670002.
Chakolas Spinning & Weaving Mills Ltd., Alwaye 683104.
G. T. N. Textiles Ltd., P. B. No. 101, Alwaye 683101.
Kanthimathy Mills, Ind. Estate, Trivandrum 695019.
Kathayee Cotton Mills Ltd., Post Box No. 6, Alwaye 683011.
Kerala Laxmi Mills Ltd., Pullazhi, Trichur 680001.
Kerala Spinners Ltd., Post Box No. 211, Komalapuram, Aryad North, Alleppey 682001.
Kottayam Textile Ltd., Vedagiri, Kurumallore, Via Ettumanur 686631.
Madras Spinners Ltd., Pampanppallam, Palghat 678007.
Malabar Spg. & Wvg. Co. Ltd., P.B. No. 11, Kallai, Calicut 673003.
Parvathi Mills Ltd., Quilon 691001.
Premier Cotton Spinning Mills Ltd., Kanjikode West, Palghat 678623.
Sitaram Textiles, Trichur 680002.
Sri Bhagvathi Textiles Ltd., Chittur 678101.
Tiruvepathi Mills Pvt. Ltd., Post Box No. 17, 90, Mill Rd., Cannanore 670001.
Trivandrum Spg. Mills Ltd., Balarampuram 695501, Trivandrum Dist.
Vanaja Textiles Ltd., Kurichikara, Trichur 680001.
Vijayamohini Mills Ltd., Thirumala, Trivandrum 695006.
Western India Cotton Mills Ltd., Pappinisseri 670561. Cannanore Dist.

Madhya Pradesh

Bengal Nagpur Cotton Mills, Rajnandgaon 491441.
Bharat Commerce & Ind. Ltd., Birlagram, Nagda 456335.
Bilaspur Spinning Mills & Ind. Ltd., Bilaspur 495001.
Binod Mills Co. Ltd., Ujjain 456001.
Burhanpur Tapti Mill, Lalbag, Burhanpur 450331.
Gwalior Rayon & Silk Mfg. (Wvg.) Co. Ltd., (Staple Fibre Divn.), Birlanagar, Gwalior 474004.
Hira Mills, Ujjain 456001.
Hope Textiles Ltd., Snehlataganj Main Rd., Indore 452003.
Hukamchand Mills Ltd., Shilnath Camp, Indore 452003.
Indore-Malwa United Mills, New Dewas Rd., Indore 452003.
Jiyajeerao Cotton Mills Ltd., Birlanagar, Gwalior 474004.
Kalyanmal Mills Ltd., 15, Shilnath Camp, Indore 452003.
Mandsaur Textile Mills, Mandsaur 458001.
Motilal Agarwal Mills Pvt. Ltd., Ind. Area, Birlanagar. Gwalior 474004.
New Bhopal Textile Mills, Chandbarh, Bhopal 462010.
Nimar Textiles Ltd., Indore Rd., Khandwa 450001.
Phoenix Mills Ltd. (No. 2), Ujjain 456001.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Rajkumar Mills Ltd., 7, New Dewas Rd., Indore 452003.

Shree Sajjan Mills Ltd., Ratlam 457001.

Spinning Mill, Sanawad 451111.

Standard Mills Co. Ltd., Balgarh, Dewas 455001.

Swadeshi Cotton & Flour Mills, 7, Shilnath Camp, Indore 452003.

Maharashtra

Amravati Growers Co-op. Spinning Mills Ltd., Badnera Rd., New Ind. Estate, Amravati 444601.

Apollo Textile Mills, N. M. Joshi Marg, Bombay 400011.

Aurangabad Mills Ltd., Kotwalpura, Aurangabad 431001.

Barshi Textile Mills, Barsi 413401.

Bharat Textile Mills, Fergusson Rd., Lower Parel, Bombay 400013.

Bombay Dyeing & Manufg. Co. Ltd., Neville House, Graham Rd., B. Estate, Bombay 400038; *Spring Mills*, Naigaum Rd., Bombay 400014; *Textile Mills*, Elphinstone Rd., Bombay 400013; J. Bhatankar Mrg., Bombay 400025; *New Bleach Works*, Elphinstone Rd., Bombay 400013.

Bombay Textile Mills (Processing House), Suryodaya Mills Compound, Tardeo, Bombay 400034.

Bradbury Mills Ltd., M. Azad Rd., Jacob Circle, Bombay 400011.

Century Spinning & Manufg. Co. Ltd., Pandurang Budhkar Marg, Bombay 400025.

Chalisgaon Textile Mills, Chalisgaon 424101.

Coorla Spinning & Weaving Co. Ltd., Old Agra Rd., Kurla, Bombay 400070.

Crown Spinning & Manufg. Co. Ltd., Gokhale Rd. (South). Bombay 400028.

Dawn Mills Co. Ltd., Fergusson Rd., Lower Parel, Bombay 400013.

Deccan Co-op. Spinning Mills Ltd., Ichalkaranji 416115,

Digvijay Spg. & Wvg. Co., Lalbaug, Bombay 400033.

Elphinstone Spinning & Weaving Co. Ltd., Elphinstone Rd., Bombay 400013.

Empress Mills, Nagpur 440001.

Finlay Mills Ltd., 10/11, Dr. S. S. Rao Rd., Bombay 400012.

Gold Mohur Mills Ltd., Dadasaheb Phalke Rd., Dadar, Bombay 400014.

Hindoostan Spinning & Weaving Mills Co. Ltd., Jacob Circle, Bombay 400011.

India United Mills: *No. 1 Mill*, Ambedkar Rd., Bombay 400012; *No. 2 & 3 Mills*, Bhogale Mrg., Bombay 400033; *No. 4 Mill*, T. B. Kadam Mrg., Bombay 400033; *No. 5 Mill*, Chinchpokhli X Lane, Bombay 400027; *Dyeworks*, Savarkar Mrg., Bombay 400028.

Jam Manufg. Co. Ltd., Lalbaug, Bombay 400012.

Jam Shri Ranjitsinghji Spinning and Weaving Mills Co. Ltd., Station Rd., Solapur 413001.

Jawahar Co-op. Spinning Mills Ltd., Nanded Rd., Latur 413512. Osmanabad Dist.

Jawahar Sahakari Kapus Utpadak Soot Girni Maryadit, Latur 413512.

Jupiter Textile Mills, Carroll Rd., Bombay 400013.

Kamala Mills Ltd., Tulsipipe Rd., Bombay 400013.

Khandesh Spg. & Wvg. Mills Co. Ltd., Jalgaon 425001.

Khatau Makanji Spinning and Weaving Co. Ltd., B. Jagtap Marg, Byculla, Bombay 400027.

Kiran Spinning Mills, Kolshet Rd., Thane 400601.

Kohinoor Mills Co. Ltd., Naigaum Cross Rd., Dadar, Bombay 400014.

Kolhapur Sahakari Zilla Setkari Vinkar Soot Girni Ltd., Yadrav Shirol, Kolhapur 416001.

Laxmi-Vishnu Cotton Mills Ltd., Solapur 413001.

Madhavnagar Cotton Mills Ltd., Madhavnagar 416404. Sangli Dist.

Mafatlal Fine Spinning & Manufg. Co. Ltd., Mount Estate, Mazgaon, Bombay 400010.

Marathe Textiles Mills, Near Rly. Stn., Miraj 416410.

Marathwada Co-op. Spinning Mills Ltd., Wajegaon Taluka, Nanded 431601.

Model Mills (Nagpur), Umrer Rd., Nagpur 440018.

Modella Textile Industries Pvt. Ltd., Modellagram, Thane 400601.

Modern Mills Ltd., 29, K. Khadye Mrg., Bombay 400011.

Morarjee Gokuldas Spinning & Weaving Co. Ltd., Dr. Ambedkar Rd., Parel, Bombay 400012.

Mumbai Textile Mills, S. Bapat Mrg., Bombay 400013.

Nagpur Vinkar Sahkari Soot Girni Maryadit, Umrer Rd., Nagpur 440018.

Narsinggirjee Mills, Station Rd., Solapur 413001.

New City of Bombay Manufg. Co. Ltd., 63, T. B. Kadam Marg, Bombay 400033.

New Great Eastern Spinning & Weaving Co. Ltd., Dr. Ambedkar Rd., Bombay 400027.

New Kaisor-I-Hind Spinning & Weaving Co. Ltd., Ghorupdeo Rd., Bombay 400033.

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Osmanshahi Mills Ltd., Mill Rd., Nanded 431601.

Phoenix Mills Ltd., Senapati Bapat Marg, Lower Parel, Bombay 400013.

Piramal Spinning & Weaving Mills Ltd., Fergusson Rd., Bombay 400013.

Podar Mills Ltd., N. M. Joshi Marg, Bombay 400011.

Prakash Cotton Mills Pvt. Ltd., Fergusson Rd., Lower Parel, Bombay 400013.

Pratap Spinning, Weaving & Manufg. Co., Amalner 425401.

Pulgaon Cotton Mills Ltd., Pulgaon 442302.

R. B. Bansilal Amirchand Spinning & Weaving Mills (U.R.S.), Main Rd., Hinganghat 442301.

R. S. Rechchand Gopaldas Mohota Spinning & Weaving Mills Pvt. Ltd. (U.A.C.), Akola 444001.

R. S. Reckchand Mohota Spinning and Weaving Mills, Hinganghat 442301, Wardha Dist.

Raghuvanshi Mills Ltd., 11B, Jagtap Mrg., Bombay 400013.

Raja Bahadur Motilal Poona Mills Ltd., 5, Raja Bahadur Motilal Rd., Pune 411001.

Rajen (Textile) Mills Pvt. Ltd., Barsi 413401.

Rajesh Textile Mills Ltd., Fergusson Rd., Lower Parel, Bombay 400013.

Ruby Mills Ltd., Lady Jamshedji Rd., Dadar, Bombay 400028.

Sayaji Mills Ltd., Fergusson Rd., Lower Parel, Bombay 400013.

Sholapur Sahakari Soot Girani Niyamit, Akalkot Rd., Solapur 413001.

Shree Balaji Spg. & Wvg. Mills, Shivajinagar, Sangli 416416.

Shree Madhusudan Mills Ltd., Globe Mill Passage, N. M. Joshi Marg, Bombay 400013.

Shree Mukesh Textile Mills Pvt. Ltd., Victoria Bunder Rd., Colaba, Bombay 400005.

Shree Niwas Cotton Mills Ltd., 402, S. Bapat Mrg., Bombay 400013.

Shree Ram Mills Ltd., Fergusson Rd., Bombay 400013.

Shree Sitaram Mills Ltd., N. M. Joshi Marg, Bombay 400011.

Shri Shahu Chhatrapati Mills, Shahupuri, Kolhapur 416002.

Simplex Mills Co. Ltd., 30, Clerk Rd., Jacob Circle, Bombay 400011.

Standard Mills Co. Ltd., New Prabhadevi Rd., Lower Parel, Bombay 400025.

Swadeshi Mills Ltd., Old Agra Rd., Kurla, Bombay 400070.

Swan Mills Ltd., Tokarsi Jivraj Rd., Sewri, Bombay 400015.

Tata Mills Ltd., Dr. Ambedkar Rd., Dadar, Bombay 400014.

Universal Textiles Pvt. Ltd., 22, Rifle Range, Shastri Marg, Bombay 400086.

Victoria Mills Ltd., Globe Mill Passage, Off N. M. Joshi Mrg., Bombay 400013.

Vidarbha Mills Berar (U.R.S.), Achalpur 444805, Amravati Dist.

Western India Spinning and Manufg. Co. Ltd., Dattaram Lad Marg, Parel Tank, Bombay 400033.

Orissa

Bhaskar Textile Mills Ltd., Jharsuguda 768201.

Orissa Textile Mills Ltd., Choudwar 754025, Cuttack Dist.

Pondicherry

Anglo-French Textiles Ltd., Cuddalore Rd., Pondicherry 605004.

Soundarja Mills Pvt. Ltd., Nedungadu 609603, Near Kariakal.

Sri Bharathi Mills Ltd., Mudaliarpeth, Pondicherry 605004.

Swadeshi Cotton Mills, Post Box No. 19, Pondicherry 605001.

Punjab

Bharat Commerce & Ind. Ltd., Ind. Area, Rajpura 140401.

Dayalbagh Spinning & Weaving Mills, Putlighar, Amritsar 143001.

Jagatjit Cotton Textile Mills Ltd., G.T. Rd., Phagwara 144401.

Kharar Textile Mills, Kharar 140301, Near Chandigarh.

Modern Textiles Mills Ltd., Verka, Amritsar 143001.

Shree Bhawani Cotton Mills, Ganganagar Rd., Abohar 152116, Firozepur Dist.

Vardhman Spinning & General Mills Ltd., Chandigarh Rd., Ludhiana 141003.

Rajasthan

Aditya Mills Ltd., Madanganj, Kishangarh 305802.

Edward Mills, Beawar 305901.

Jaipur Spinning & Weaving Mills Ltd., Podar Puri, Power House Rd., Jaipur 302006.

K. J. Textile Mills, Kokil Kunj, Srinagar Rd., Ajmer 305001.

Krishna Mills Ltd., Beawar 305901.

Mahalakshmi Mills, Beawar 305901.

Maharaja Kishangarh Samyog Mills Co. Ltd., Madanganj, Kishangarh 305802.

Maharaja Shree Umaid Mills, Pali-Marwar 306401.

Marwar Textile Works, 265, Ratnadashiv Rd., Jodhpur 342001.

Mewar Textile Mills, Bhilwara 311001.

Rajasthan Spg. & Wvg. Mills, Bhilwara 311001.

Rajasthan Textile Mills, Bhawanimandi 326502.

Shree Sadul Textiles Ltd., Sri Ganganagar 335001.

Sudarshan Textiles, Rangpur Rd., Kota 324002.

Udaipur Cotton Mills, Pratapnagar, Udaipur 313001.

Tamil Nadu

Alagappa Cotton Mills, Nagammai 625019, Ramnad Dist.

Asher Textiles Ltd., Post Box 154, Gandhinagar, Tirupur 638603.

Ayyappan Textiles Ltd., 143/E, Post Box 12, Ramanathapuram 641009.

Binny Ltd., 7, Armenian St., Madras 600001.

Bhavani Mills Ltd., 362, Pollachi Rd., Coimbatore 641021.

Bhojaraj Textiles Mills Ltd., Theni, Madurai 625004.

Cambodia Mills Ltd., Ondiputhur, Coimbatore 641 [illegible]

Cauvery Spinning & Weaving Mills Ltd., Cauvery Nagar 622501.

Chandra Textiles Pvt. Ltd., Peelamedu, Coimbatore 641004.

Coimbatore Cotton Mills Ltd. & Coimbatore Cotton Jubilee Mills, Uppilipalayam, Coimbatore 641015.

Coimbatore Dist. Co-op. Spinning Mills Ltd., Post [illegible] Dharapuram 638656.

Coimbatore Murugan Mills Ltd., Mettupalayam Rd., Coimbatore 641002.

Coimbatore Pioneer Mills Ltd., Peelamedu, Coimbatore 641004.

Dhanalakshmi Mills Ltd., 56, B.S. Sundaram Rd., Tirupur 638601.
Ganga Textiles, 2/249, Avanashi Rd., Coimbatore 641018.
Gnanambikai Mills Ltd., Coimbatore 641029.
Gobald Textiles Pvt. Ltd., 144, Easwaran Koil St., Tirupur 638601.
Gomathy Mills, Viravanallur 627426, Tirunelveli Dist.
Jawahar Mills Ltd., Shevapet, Post Box 514, Salem 636005.
Jayaram Mills Ltd., Samsikapuram Rd., Rajapalayam 626117.
Jothi Mills, Jothipuram, Coimbatore 641019.
Kadri Mills (C.B.E.) Ltd., Odderpalayam, Ondiputhur, Coimbatore 641016.
Kaleeswarar Mills, Post Box 977, 10/8, Anupparpalayam, Coimbatore 641009.
Kancheepuram Kamakshiamman Co-op. Spinning Mills Ltd., Vaiyavoor, Post Box 2, Kancheepuram 631501,
Kandasamy Spinning Mills, Suriyampalayam, Bhavani 638301, *via* Erode.
Kanyakumari District Co-op. Spinning Mills Ltd., P.O. Aramboly 629301.
Karur Mills Ltd., Karur 639005.
Kothari (Madras) Ltd., K. Vadamadurai, Coimbatore 641017.
Krishnaveni Textiles Ltd., Trichy Rd., Uppilipalayam, Singanallur, Coimbatore 641005.
Kumaran Mills Ltd., Peelamedu, Coimbatore 641004.
Kwality Spinning Mills Pvt. Ltd., Udumalpet Rd., Pollachi 642003.
Lakshmi Mills Co. Ltd., P. Box 1301, Pappanaickenpalayam, Coimbatore 641018.
Lotus Mills Ltd., Sundarapuram, Podanur, Coimbatore 641024.
Loyal Textile Mills Ltd., Kovilpatti 621701.
Madura Coats Ltd., Ambasamudram 627401.
Madura Coats Ltd., Madurai 625001.
Madura Coats Ltd., Tuticorin 628001.
Madurai Dist. Co-op. Spinning Mills Ltd., Post Box 1, Melur 625106.
Mettur Beardsell Ltd., Mettur Dam 636402.
Mettur Spinning Mills, Mettur Dam 636402.
Nagammai Mills Ltd:, Kaliancaud, Nagercoil 629003.
North Arcot Dist. Co-op. Spinning Mills Ltd., Ariyur, Vellore 632002.
Palani Andavar Mills Ltd., Dhally Rd., Udumalpet 642126.
Premier Mills (Cbe.) Ltd., Pulankinar, Udumalpet 642126.
Pulliccar Mills Ltd., Post Box 7, Tiruchengode 637211.
Radha Krishna Mills Ltd., Peelamedu, Coimbatore 641004.
Rajalakshmi Mills Ltd., Post Box 853, Singanallur, Coimbatore 641005.
Rajapalayam Mills Ltd., Post Box 1, Rajapalayam 622602.
Rajaratna Mills Pvt. Ltd., Neikarapatty, Palni 624601.
Ramalinga Mills Pvt. Ltd., 53, Great Cotton Rd., Aruppukottai 626101.
Raveendra Mills Ltd., Post Box 859, Singanallur, Aerodrome Rd., Coimbatore 641005.
Salem Co-op. Spinning Mills Ltd., Post Box 1, Ammapet, Salem 636014.
Saroja Mills Ltd., Singanallur, Coimbatore 641005.
Sholingur Textiles Ltd., Arkonam Rd., Sholingur 631102, N. Arkot Dist.
Sivananda Mills Ltd., Sravanampatti, Coimbatore 641006.
Somasundaram Mills Pvt. Ltd., Coimbatore 641009.
Soundararaja Mills Pvt. Ltd., Post Box 15, Dindigul 624006.
South Arcot Dist. Co-op. Spinning Mills Ltd., P.O. Saram 604307.
South India Co-op. Spinning Mills Ltd., P.O. Pettai, Tirunelveli 627010.
Southern Textiles Ltd., Sulur 641402, Coimbatore Dist.
Sree Ayyangar Spinning & Weaving Mills Ltd., Mallanginar 626109, Ramnad Dist.
Sree Meenakshi Mills Ltd., Tirupparankundram Rd., Madurai 625001.
Sree Rajendra Mills Ltd., Gandhi Nagar, Salem 636009.
Sree Sanmugar Mills, Rajapalayam 626117.
Sree Sivakami Mills Ltd., Thenur 620017, Madurai Dist.
Sree Visalakshi Mills Ltd., Vilangudi 614715, Madurai Dist.
Sri Bharathi Cotton Mills, Post Box 6, Rajapalayam 626117.
Sri Hari Mills Pvt. Ltd., Ondipudur, 641016.
Sri Kannapiran Mills Ltd., Souripalayam, Coimbatore 641004.
Sri Kartikeya Spg. & Wvg. Mills Pvt. Ltd., Uppilipalayam 641015.
Sri Karunambikai Mills Ltd., Somanur, Coimbatore 638668.
Sri Kothandaram Spinning Mills, 29, Venkatapathi Iyengar St., Madurai 625001.
Sri Ramakrishna Mills Ltd., Sathiamangalam, Coimbatore 641006.
Sri Ramalinga Choodambikai Mills Ltd., 59A/15, B. S. Sundaram Rd., Tirupur 638601.
Sri Ramnarayan Mills Ltd., Perianaickenpalayam, Coimbatore 641018.
Sri Ranga Vilas Ginning, Spinning & Weaving Mills, Peelamedu, Coimbatore 641004.
Sri Rani Lakshmi Ginning, Spinning & Weaving Mills Pvt. Ltd., Arasur, Palladam 638664. (Coimbatore Dist.).
Sri Sakthi Textiles Pvt. Ltd., Post Box No. 36, Pollachi 642001.
Sri Sarada Mills, Podanur, Coimbatore 641023.
Sri Venkatesha Mills Ltd., Palni Rd., P.O. Venkatesha Mills, Udumalpet 642126.
Sri Venkatesha Mills Ltd., Kathirvedu, Madras 600066.
Srivilliputhur Co-op. Spinning Mills Ltd., Post Box 13, Srivilliputtur 626125.
Sudarsanam Spinning Mills, Post Box 2, Rajapalayam 626112.
Sundaram Textiles Ltd., Nambinagar, P.O. Nanguneri, 627108, Tirunelveli Dist.
Surya Prabha Mills Pvt. Ltd., Kuniamuthur, Coimbatore 641008.
Swamiji Mills Ltd., Meenakshipuram, Annaikutam Post, Sattur 626203.
Thanjavur Dist. Co-op. Spinning Mills Ltd., Manalmedu 609202.
Thanjavur Textiles Ltd., Thanjavur 613005.
Thiagarajar Mills, Kappalur, Thirumangalam 626706, Madurai Dist.
Thirumagal Mills Ltd., Katpadi Rd., Gudiyattam 632602.

Tiruchendur Co-op. Spinning Mills Ltd., Nazareth, Tirunelveli 628617.

Tirupur Cotton Spinning & Weaving Mills Ltd., Perumanallur Rd., Tirupur 628602.

Trichy Dist. Co-op. Spinning Mills Ltd., Malaikovilur, Karur 639001.

Trichinopaly Mills Ltd., Ramjeenagar, Tiruchirapalli 620009.

Tuticorin Spg. Mills Ltd., 106, Palayamcottai, Tuticorin 628003.

Varadhalakshmi Mills Ltd., Rajagambeeram, Post Box 5, Manamadurai 623613.

Vasanta Mills Ltd., Trichy Rd., Singanallur, Coimbatore 641005.

Vijayakumar Mills Ltd., P.O. Kalayamputhur, Palni 624615, Madurai Dist.

Vijayalakshmi Mills Ltd., Kuniyamuthur, Coimbatore 641008.

Uttar Pradesh

Ajanta Textiles Ltd., Loni Rd., Ind. Area, Ghaziabad 201001.

Amitabh Textile Mills Ltd., Prem Nagar, Dehra Dun 248001.

Atherton Mills, Anwarganj, Kanpur 208001.

Bijli Cotton Mills, Mendu Rd., Hathras City 204101.

Cawnpore Textiles Ltd., Cooperganj, Kanpur 208003.

Co-op. Textile Mills Ltd., Sahakarinagar, Bulandshahr 203001.

Elgin Mills Co. Ltd., Civil Lines, Kanpur 208001.

Hindon River Mills, Dasna, Ghaziabad 201001.

J. K. Manufacturers Ltd., Kamla Tower, Kanpur 208001.

Juggilal Kamlapat Cotton Spinning & Weaving Mill Co., Ltd., Kamla Tower, Kanpur 208001.

Lakshmirattan Cotton Mills, Kalpi Rd., Kanpur 208012.

Lord Krishna Textile Mills, Nakur Rd., Saharanpur 247001.

Modi Spinning & Weaving Mills Co. Ltd., Modinagar 201201, Meerut Dist.

Moradabad Spinning & Weaving Co. Ltd., Kundanpur, Moradabad 244001.

Muir Mills, Civil Lines, Kanpur 208001.

N. K. Cotton Mills, Hathras City 204101.

New Victoria Mills, 14/1, Civil Lines, Kanpur 208001.

Prem Spg. & Wvg. Co. Ltd., Station Rd., Ujhani 243639, Budaun Dist.

Raza Textiles Ltd., Jwalanagar, Rampur 244901.

Swadeshi Cotton Mills, Hamirpur Rd., Juhi 208014. Kanpur Dist.

Swadeshi Cotton Mills, Naini 211008, Allahabad Dist.

U.P. Co-op. Spinning Mills Ltd., Mainpuri Rd., Etawah 206001.

West Bengal

Anantapur Textile Mills, 161, Netaji Subhas Rd., Calcutta 700001.

Arati Cotton Mills Ltd., Dassnagar 711105.

Bangodaya Cotton Mills Ltd., 64/65, Stephen House, B.B.D. Bag (East), Calcutta 700001.

Basanti Cotton Mills Ltd., 1 & 2, Old Court House Corner, Calcutta 700001.

Bengal Luxmi Cotton Mills Ltd., 7, Chowringhee Rd., Calcutta 700013.

Bengal Textile Mills Ltd., 5, Old Court House St., Calcutta 700001.

Bhagyalaxmi Cotton Mills Ltd., 36, J. L. Nehru Rd., Calcutta 700016.

Bhaskar Textile Mills Ltd., 2, Biplabi Trailokya Maharaj Sarani, Calcutta 700001.

Bowreah Cotton Mills Co. Ltd., 21, Strand Rd., Calcutta 700001.

Dunbar Mills Ltd., 21, Strand Rd., Calcutta 700001.

Eastern Spinning Mills Ltd., P-46A, Radhabazar Lane, Calcutta 700001.

Hada Textile Industries Ltd., 4, Govt. Place (North), Calcutta 700001.

Hindusthan Cotton Mills Ltd., 10, Pollock St., Calcutta 700001.

India Jute Co. Ltd. (Cotton Mill Sec.), 16, Strand Rd., Calcutta 700001.

India Linoleum Ltd. (Victoria Dvn.), Ghusury 711107. (Howrah Dist.).

Jatia Cotton Mills Ltd., 18, Netaji Subhas Rd., Calcutta 700001.

Jaya Shree Textile & Ind.`Ltd., P-46A, Radhabazar Lane, Calcutta 700001.

Kalyani Spinning Mills Ltd., 67, Bentinck St., Calcutta 700001.

Kesoram Ind. & Cotton Mills Ltd., 9/1, R. N. Mookherjee Rd., Calcutta 700015.

Madura Mills Ltd., Serampore, Hooghly 712201.

Mayurakshi Cotton Mills Ltd., 19, R. N. Mookherjee Rd., Calcutta 700001.

Mohini Mills Ltd. No. 2, 22, B.R.B.B. Rd., Calcutta 700001.

Poddar Projects Ltd., Hong Kong House, 31, B.B.D. Bag, Calcutta 700001.

Rampooria Cotton Mills Ltd., 8/B, Lal Bazar St., Calcutta 700001.

Shaktigarh Textiles & Ind., 4, Govt. Place (North), Calcutta 700001.

Shri Hanuman Cotton Mills Ltd., 46, Strand Rd., Calcutta 700007.

Shri Mahalaxmi Mills, Palta, 24 Parganas Dist.

Sri Annapoorna Cotton Mills Ltd., P-10, New Howrah Bridge Approach Rd., Calcutta 700001.

Sri Durga Cotton Spinning & Weaving Mills Ltd., 135, B.R.B.B. Rd., Calcutta 700001.

Vidyasagar Cotton Mills Ltd., 11, Collotolla St., Calcutta 700012.

TEXTILE SHUTTLES

Gujarat

Metro Wood & Engg. Works Pvt. Ltd., Ashram Rd., Navrangpura, Ahmedabad 380009.

National Shuttle Manufg. Works, 1288, Vakharia Bldg., Kapasia Bazar, Ahmedabad 380002.

Swastik Textile Trading Co. Pvt. Ltd., Motilal Haribhai Market, Railwaypura Post, Ahmedabad 380001.

Maharashtra

Acme Bobbins & Shuttles Pvt. Ltd., 315, S. V. Savarkar Marg, Dadar, Bombay 400028.

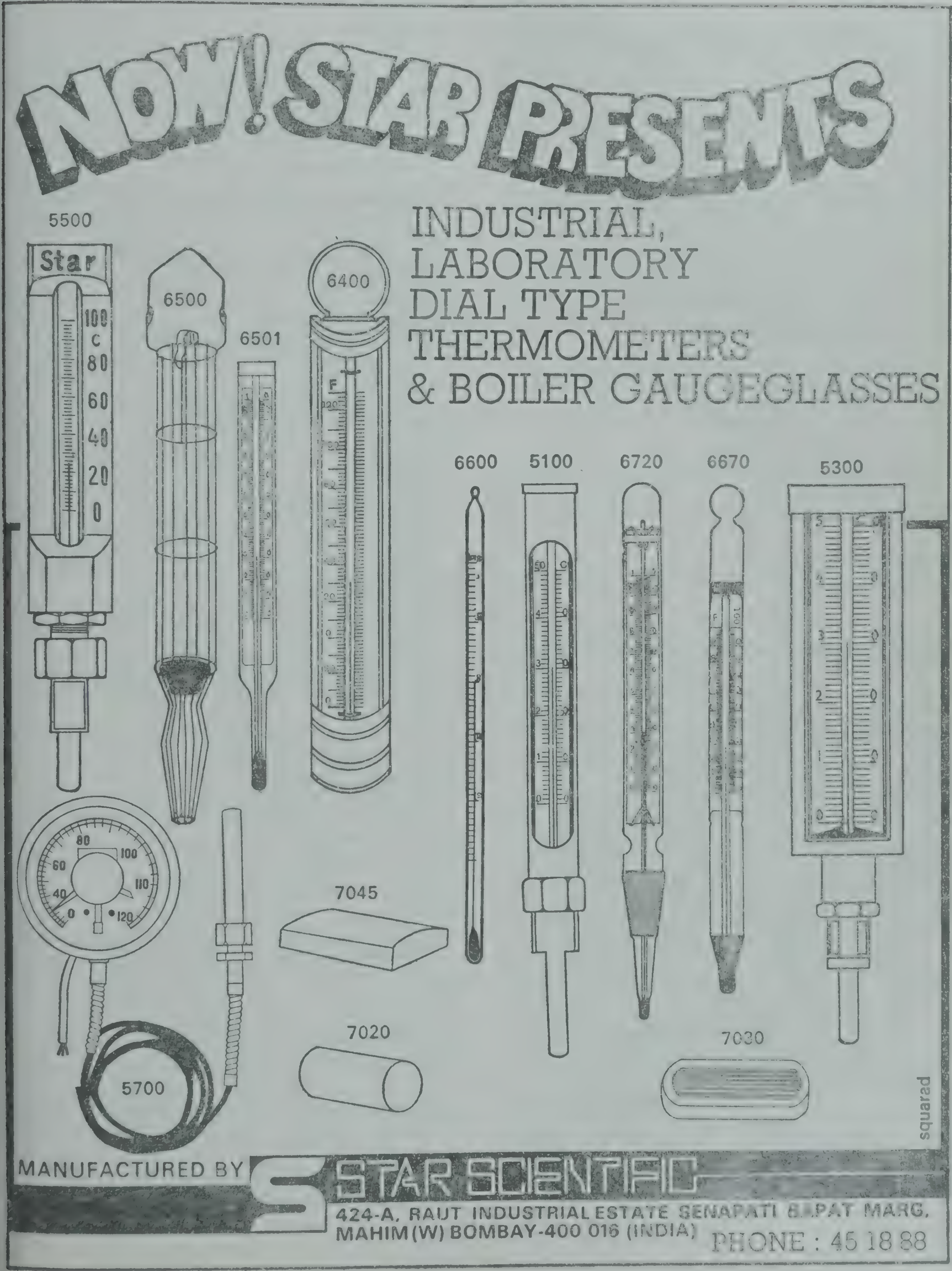
Bharat Timber Ind. (Bombay) Pvt. Ltd., 522, Sayani Rd., Bombay 400025.

Bombay Shuttle Manufg. Co., 21, Dalal St., Bombay 400023.

Central India Machinery Manufg. Pvt. Ltd., 80, S. Vivekanand Rd., Jogeshwari, Bombay 400060.

Indequip Ltd., 127, M. Gandhi Rd., Bombay [illegible]

Thermometers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Indian Shuttle Co. Pvt. Ltd., 105, Apollo St., Bombay 400023.

John Roberts & Co. Pvt. Ltd., Sewree Fort Rd., Bombay 400015.

Swastik Textile Trading Co. Pvt. Ltd., 16, Apollo St., Bombay 400023.

Tarsema Textiles Traders, 11, Noble Chambers, Parsee Bazar St., Bombay 400001.

Tradeco (India), 29, Raghunath Dadaji St., Bombay 400001.

Punjab

Virdi Inds. (Shuttles) Pvt. Ltd., 211, East Mohan Nagar, Sultanwind Rd., Amritsar 143001.

West Bengal

Chakravarti & Co., P-10, New Howrah Bridge Approach Rd., Calcutta 700001.

Shalimar Inds. Pvt. Ltd., 25, G. C. Ave., Calcutta 700013.

TEXTILES—EMBROIDERED

Delhi

Krishna Embfastners, Sunlight Bldg., Asaf Ali Rd., P.B. 528, New Delhi 110002.

Shiv Silk Mills, 71/A, Najafgarh Rd., New Delhi 110015.

Haryana

Hemla Embroidery Mills Pvt. Ltd., Hemla Nagar, Mathura Rd., Faridabad 121001.

Sovrin Knit Works, 20/4, Mathura Rd., Faridabad 121001.

Karnataka

Bangalore Embroidery Works Pvt. Ltd., 57/1, Hebbal Rd., Bangalore 560024.

Maharashtra

Allovers & Lace Pvt. Ltd., 534, Kalbadevi Rd., Bombay 400002.

Bombay Fancy Textile Co., 132, Fergusson Rd., Bombay 400013.

Cameo Fabrics Pvt. Ltd., 16, MIDC Est., Thana-Belapur Rd., Thane 400601.

Doshi Ind. Corpn., Ghatkopar, Opp. Indo-Nippon Chemical Co. Ltd., Bombay 400077.

Embroteks Pvt. Ltd., 98, Vivekanand Rd., Thane 400601.

Fancy Corpn. Ltd., 16, Apollo St., Bombay 400023.

Hitex Emb. Pvt. Ltd., Hitex Indl. Est., Vivekanand Rd., Bombay 400068.

Jasmine Mills Pvt. Ltd., Dharavi, Bombay 400017.

Jyoti Embroidery Pvt. Ltd., Neel Kanth, 98, Marine Drive, Bombay 400002.

Leela Scottish Lace Pvt. Ltd., Leela Baug, M. Vasanji Rd., Bombay 400069.

Pravin & Co. Pvt. Ltd., Jasmine Mills Compound, Dharavi Bombay 400017.

Shiv Embroidery Manufg. Co., Mira, Vivekanand Rd., Bombay 400068.

Shree Krishna Textiles, Near Bhor Industries, Borivli East, Bombay 400092.

Swiss Embroidery Pvt. Ltd., Kashmira Indl. Est., S. Vivekanand Rd., Bombay 400068.

Vadilal Embroidery Unit, Dalamal Chambers, New Marine Lines, Bombay 400020.

Woodcraft Products Ltd. (Embroidery Division), Kolshet Rd., Thane 400601.

Punjab

Indo Knit & Emb. Pvt. Ltd., 8, The Mall, Amritsar 143001.

Tamil Nadu

S. S. M. Brothers Pvt. Ltd., P. B. 8, P. O. Komarapalayam 638183. Via Erode.

Veena Textiles Pvt. Ltd., P. B. 110, 9 Raja St., P. O. Komarapalayam 638183 Via Erode.

THREAD — SEWING

(See Under 'Sewing Thread' in this list.)

TIN PRINTERS & BOX MANUFACTURERS

All India Metal Box Co., 181, Katra Baryan, Fatehpuri, Delhi 110006.

Apollo Engg. Co., 12, Portuguese Church St., Calcutta 700001.

Bharat Metal Inds., 681, Haines Rd., Bombay 400011.

Binjusaria Metal Box Co., C-1 & 2, Govt. Ind. Est., Chandulal Baradai, Hyderabad 500264.

Central Tin Works, Chinchpokli X Lane, Bombay 400027.

H. A. H. Bachooalli Tin Factory, 117-119, Mohamed Ummer Kokil Mrg., Dongri, Bombay 400009.

Indian Tin Box Mfg. Co., 55/I/N, Tiljala Rd., Calcutta 700046.

Kiv Trading Co., 1st Parsiwada, Khetwadi, Bombay 400004.

Kotecha Investment Corpn. Pvt. Ltd., 231, Dr. D. N. Rd., Bombay 400001.

Metal Printers Co., Aga Khan Bldg., Dalal St., Bombay 400023.

Metal Seamers & Printers Ltd., 81/3, Harish Chatterjee St., Calcutta 700025.

Metal Stamping Co., A-35, Waglo Indl. Est., Thane 400604.

Navrang Tin Printers, Kamal Process Studio, K. C. Ind. Estate, Subhas Rd., Jogeshwari (E), Bombay 400060.

Oriental Containers Ltd., 1076, Dr. E. Moses Rd., Worli, Bombay 400018.

Povsha Ind. Co. Ltd., Tiecicon House, Dr. E. Moses Rd., Bombay 400011.

Shyamnagar Tin Factory Pvt. Ltd., 62, Nagendra Nath Rd., Calcutta 700028.

Tin Box of Calcutta, 73, Belgachia Rd., Calcutta 700037.

Zenith Tin Works Pvt. Ltd., Clerk Rd., Mahalaxmi, Bombay 400034.

TINPLATE & STEEL FABRICATORS

Bihar

Hind Engg. Co., Lakhani Bigha, P.O. Khagaul 801105, Patna Dist.

Delhi

H. P. Industries, 69, Ind. Area, Najafgarh Rd., New Delhi 110015.

Harichand Kashmirilal, Naya Bazar, Delhi 110006.

Mohan Industry, 953, Mali Wada, Delhi 110006.

Gujarat

New Digvijaysinhji Tin Factory, Grain Market, Jamnagar 361001.

Karnataka

India Tin Industries Pvt. Ltd., Old Madras Rd., Durvaninagar, Bangalore 560016.

Madhya Pradesh

Ashoka Containers, 25/36, Ind. Estate (Pologround), Indore 452001.

Maharashtra

Azad Tin Factory, Azad House, 75/76 Reay Rd., Bombay 400010.

Shilay Inds., 8, Udyog Nagar, Goregaon West, Bombay 400062.

Standard Tin Works, Udyog Mandir, Kurla-Andheri Rd., Bombay 400072.

Uttar Pradesh

Associated Indl. Corpn., 39, Factory Area, Fazalganj, Kanpur 208001.

G. G. Industries Pvt. Ltd., 8/390, Bheron, Belanganj, Agra 282004.

Hindustan Tin Works Pvt. Ltd., Post Box No. 1, G.T. Rd., Ghaziabad 201001.

United Chemical & Metal Works Pvt. Ltd., 7/109, Lal Bangalow, Swaroop Nagar, Kanpur 208001.

West Bengal

Balgopaldas Iron & Steel Co. Pvt. Ltd., 5, Gopal Doctor Rd., Kidderpore, Calcutta 700023.

Bengal Tin Box Manufg. Co. Pvt. Ltd., 1, Jadu Mitra Lane, Calcutta 700004.

Bharat Barrel & Drum Manufg. Co. Pvt. Ltd., 2, Garstin Place, Calcutta 700001.

Bharat Tin & Enamel Co. Pvt. Ltd., 2A, Shakespeare Sarani, Calcutta 700016.

Color Printing & Hollowwares Ltd., 243, Acharya P. Chandra Rd., Calcutta 700006.

Containers & Closures Ltd., 19, N. S. Rd., Calcutta 700001.

D. G. Industries Pvt. Ltd., 15, G. C. Ave., Calcutta 700013.

Dhur Galvg. Works (1955) Pvt. Ltd., 92, Ultadanga Main Rd., Calcutta 700004.

Ganga Tin Factory, 5, Raja Rajkissen St., Calcutta 700006.

Hind Enamel Co., 12, Madhuray Bye Lane, Calcutta 700006.

Hind Galvg. & Engg. Co. Pvt. Ltd., 96, Garden Reach Rd., Calcutta 700023.

Hind Tin Industries, 107-A Raja Dinendra St., Calcutta 700006.

Hindusthan Metal Products Syndicate, 243, Acharya P. Chandra Rd., Calcutta 700006.

Industrial Containers Ltd., P-4/1, Oil Installation Rd., Paharpur, Calcutta 700043.

Khemchand Rajkumar, 46/C, Chowringhee Rd., Calcutta 700016.

Kohinoor Manufg. Corpn. Pvt. Ltd., 5/1, Rosemary Lane, Howrah 711101.

M. L. Day & Co., 36, Chittaranjan Ave., Calcutta 700013.

Metal Products & Engg. Co., 124, M. Gandhi Rd., Calcutta 700007.

Metal & Tin Box Co. (I.) Pvt. Ltd., 233, G. L. Tagore Rd., Barnagore, Calcutta 700036.

Metal Wares & Printing Works, 3, Jagmohan Lane, Calcutta 700007.

National Alloy & Metal Works Pvt. Ltd., 17, N. C. Das Lane, Sinthee, Calcutta 700050.

Shyamnagar Tin Factory Pvt. Ltd., 62, Sri Nagendranath Rd., Satgachhi, Dum Dum, Calcutta 700028.

Sree Gopal Tin Factory Pvt. Ltd., 109B, Raja Dinendra St., Calcutta 700004.

Tinplate Co. of India Ltd., 4, Bankshall St., Calcutta 700001.

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TOOLS—CARBIDE—DIAMOND

Bharat Diamond Ind., Nagin Mahal, V. Nariman Rd., Bombay 400020.

Bhukhanvala & Sons, Medows House, Medows St., Bombay 400023.

Dagger Frost Tools Ltd., First Pokhran Rd., Thane 400606

Diamond Cutting & Trdg. Co. Pvt. Ltd., Daya Mandir, Mumbadevi, Bombay 400003.

Doongursee Diamond Tools Pvt. Ltd., 127, Mahatma Gandhi Rd., Bombay 400023.

Engg. Tooling Equipment Co., Chunilal Est., Chinchpokhli X Lane 2, Bombay 400027.

Forbes, Forbes Campbell & Co. Ltd., Forbes Bldg., Home St., Bombay 400001.

Greaves Cotton & Co., Ltd., (Diamond Products Divn.), M.I.D.C. Estate, Plot B-5, St. No. 6, Off Mahakali Caves Rd., Marol, Andheri (East), Bombay 400093.

Industrial Diamond & Tool Co., 4, Bhagavatlal Lane, Madras 600003.

Industrial Diamonds & Tools Co., 45, Sagar Vihar, 45 K. M. Munshi Marg, Bombay 400007.

J. K. Engineering (Diamond Works), Jivraj Nivas, 408, L. B. S. Mrg., Kurla, Bombay 400070.

J. N. Marshall & Co., Marshall Lodge, 97, Cumballa Hill, Bombay 400036.

Killick Ind. Ltd., Killick Bldg., Home St., Bombay 400001.

L. M. Van Moppes Diamond Tools India Ltd., Tiger Hill Rd., Coonoor 643101, T. Nadu.

L. & T. Drilling Equipment Ltd., L. & T. House, Narottam Morarji Mrg., Bombay 400038.

Macneill & Magor Ltd., Mackinnon Mackenzie Bldg., Ballard Estate, Bombay 400038.

New India Hardware Mart, 152, N. Dhuru St., Bombay 400003.

P. Orr & Sons Pvt. Ltd., 200, Mount Rd., Madras 6000[illegible]

Sikkim Jewels Ltd., Jewel House, Gangtok 737101 (Sikkim).

Sneva Diamond Tools Pvt. Ltd., 40, Errabalu Chetty St., Madras 600001.

Star Diamond Tools, 60, Sir P. Mehta Rd., Bombay 400001.

Super Tool Co. Pvt. Ltd., S. G. Barve Rd., Kalina, Santacruz (E), Bombay 400029.

Voltas Ltd., Graham Rd., B. Estate, Bombay 400038.

TOOLS—CUTTING, MILLING CUTTERS, PRECISION CUTTERS, REAMERS TWIST DRILLS

Andhra Pradesh

Chowgule Matrix Hobs Ltd., 5-9-22/1, Hill Fort Rd., Hyderabad 500001.

Delhi

Himco Tools & Engg. Works, 673, Katra Neel, Chandni Chowk, Delhi 110006.

Indian Tool Manufrs. Ltd., 2/11, Ansari Rd., Darya Ganj, New Delhi 110002.

Laldee Pvt. Ltd., Vijaya Press Bldg., Naya Bazar, Delhi 110006.

Machine Tools (India) Pvt. Ltd., D-24, South Extn. Part II, N. Delhi 110049.

Rib Tapes (India) Pvt. Ltd., 390, Old P.O. St., Delhi 110006.

Tools & Equipment Pvt. Ltd., 6-13, Ind. Area, New Delhi 110015.

Karnataka

Bharat Fritz Werner Pvt. Ltd., Peenya, Bangalore 560022.

Cimotec, 44-B, Seshadripuram, Bangalore 560020.

Jairamdas Udyog Pvt. Ltd., 111/118, Silver Jubilee Park Rd., Bangalore 560002.

Omicron Tool Works, IV Main Rd., 15th Cross, Malleswaram, Bangalore 560003.

Maharashtra

Bharat Tool Manufg. Co. Pvt. Ltd., Swastik Mill Compound, Fergusson Rd., Bombay 400013.

Consolidated Pneumatic Tools Co. (India) Ltd., 301/302, Agra Rd., Mulund, Bombay 400080.

Crystal Tools Centre, 72-80, Nagdevi X Lane, Bombay 400003.

Dagger Frost Tools Ltd., 1st Pokhran Rd., Thane 400601.

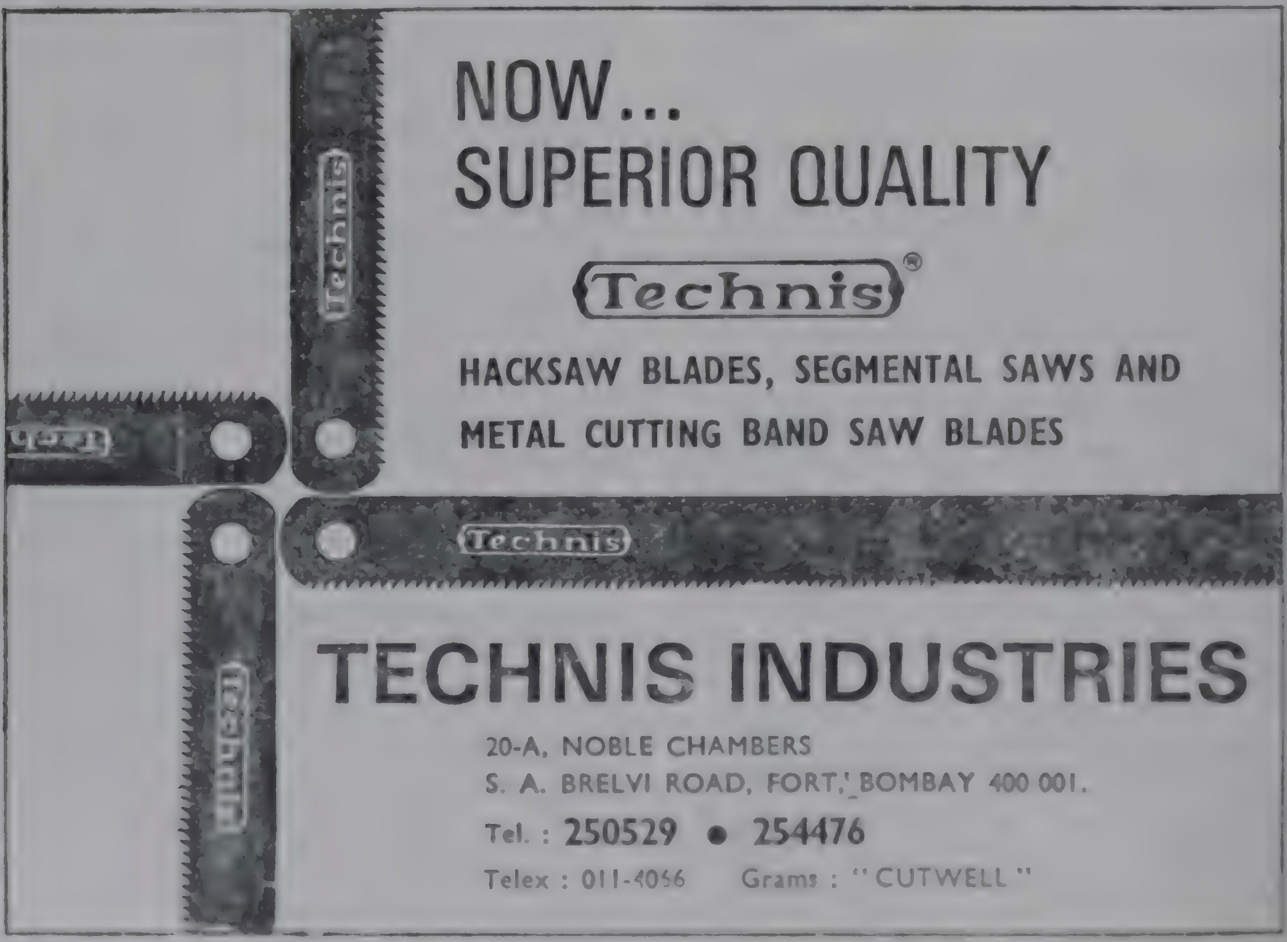
Empire Industries Ltd. (Garlick Engg. Divn.), B. Jagtap Marg, Sant Gadge Maharaj Chowk, Bombay 400011.

Ex-Cell-O India Ltd., 78-B, Dr. A. Besant Rd., Worli, Bombay 400018.

Gannon Dunkerley & Co. Ltd., Chartered Bank Bldg., Bombay 400001.

Greaves Cotton & Co. Ltd., Dr. V. B. Gandhi Marg, Bombay 400023.

Kala Industries (Bombay), 78, Nagdevi St., Bombay 400003.



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New Standard Engg. Co. Ltd., Ram Mandir Rd., Goregaon, Bombay 400063.

Profile Gauges & Tools Ind. Pvt. Ltd., 6-7-8, Anupam Ind. Estate No. 2, LBS Mrg., Mulund (W), Bombay 400080.

Repetitions Parts Pvt. Ltd., Agra Rd., Bhandup, Bombay 400078.

S. S. Miranda Pvt. Ltd., Mount Rd., Mazgaon, Bombay 400010.

Sandvik Asia Ltd., Pimpri, Pune 411018.

Super Surface Tools Co., B 117, Ghatkopar Indl. Estate, Bombay 400086.

Super Tools Pvt. Ltd., Kalina, Santa Cruz, Bombay 400029.

Tata Engg. & Locomotive Co. Ltd., Bombay House, Homi Mody St., Bombay 400023.

Technis Inds., 20-A, Noble Chambers, S. A. Brelvi St., Bombay 400001.

Voltas Ltd., 19, Graham Rd., B. Estate, Bombay 400038.

Punjab

Basal Tool Co., 23, Factory Area, Patiala 147001.

Tamil Nadu

Addison & Co. Ltd., 158, Mount Rd., Madras 600002.

Orient Tools & Gauges Ltd., 65, N. M. Mudaliar Rd., Aminjikarai, Madras 600029.

P. S. G. Indl. Instt., Peelamedu, Coimbatore 641004.

S. R. P. Tools Ltd., Lattice Bridge Rd., Madras 600041.

Synthetic Cutting Tools Mfg. Co., No. 6, MIT Gate Rd., Madras 600044.

Threadwell Gauges & Tools Co., G-14, Ind. Estate, Madras 600058.

Tool Room Services Pvt. Ltd., B-21, Ind. Estate, Madras 600058.

West Bengal

A. K. Bhattacharya & Sons Pvt. Ltd., 44/8 A, Garcha Rd., Dalhousie Sq., Calcutta 700019.

Binani Metal Works Ltd., 103/24/1, Foreshore Rd., Shibpur, Howrah 711101.

Hada Tools Ltd., 27-A, Camac St., Calcutta 700016.

Harbanslal Malhotra & Sons, Ltd., 12, New CIT Rd., Calcutta 700012.

Small Tools Manufg. Co. of India Ltd., P-17, Ganesh Chandra Ave., Calcutta 700013.

Taps & Dies Ltd., P-17, Mission Row Extn., Calcutta 700013.

TOOLS—DRILLING

Indian Minidrills Pvt. Ltd., 8, J. C. Rd., Bangalore 560002.

Indian Tool Manufrs. Ltd., 101, Sion Rd., Sion, Bombay 400022.

Ingersoll-Rand (India) Pvt. Ltd., Maybaker House, S. K. Ahire Mrg., Worli, Bombay 400025.

Jairamdas Udyog Pvt. Ltd., 157-159, N. Dhuru St., Bombay 400003.

LMP Precision Engg. Co. Pvt. Ltd., Bilimora 396321.

TOOLS—HAND & OTHER MISC. SMALL TOOLS

Andhra Pradesh

Praga Tools Corpn. Ltd., Secunderabad 500003.

Bihar

Tata Iron & Steel Co. Ltd., Jamshedpur 831001.

Delhi

Gedore Tools India Pvt. Ltd., 151, Golf Links, New Delhi 110003.

Hindustan Everest Tools Ltd., Dohil Chambers, 46, Nehru Place, New Delhi 110016.

Haryana

Dhanda Engrs. Pvt. Ltd., Ind. Area, Faridabad 121003.

Ratanchand Hanjasrai (Mouldings) Pvt. Ltd., 54, Ind. Area, Faridabad 121003.

Karnataka

Mysore Implements Factory, Hassan 573201.

Omicron Tool Works, Yeshwantpur, Bangalore 560010.

Maharashtra

Ace Tools Pvt. Ltd., B-5, Co-op Ind. Estate, Nasik 422001.

Accurate Engineering Co. Pvt. Ltd., 67, Hadapsar Ind. Estate, Post Bag No. 1202, Pune 411013.

Asha Bros. Pvt. Ltd., 1-B, Patel Rd., Goregaon, Bombay 400063.

Bahco Taparia Tools Ltd., 20, S. Bhagat Singh Rd., Bombay 400023.

Blue Steel Engrs. Pvt. Ltd., 144, A—Z. Indl. Estate, Fergusson Rd., Bombay 400013.

Chandulal Mehta & Co. Pvt. Ltd., Sakla House, M. Parmanand Marg, Bombay 400004.

Eagle Mfg. Co., C-19, Ghatkopar Ind. Estate, LBS Mrg., Bombay 400086.

Echjay Ind. Pvt. Ltd., Kanjur Village Rd., Bombay 400078.

Lal-Roe Measuring Tools Pvt. Ltd., Darshan Apartment, Mount Pleasant Rd., Bombay 400006.

Mapa Tools Pvt. Ltd., Fibre Box Compd., Gamdevi Rd., Bombay 400078.

Mohanlal Ghanshamdas, 74, Nagdevi Cross Lane, Bombay 400003.

Proto Machine Tools Manufg. Co. Pvt. Ltd., Dinesh Mills Compd., Agra Rd., Bhandup, Bombay 400078.

Rallis India Ltd., Ralli House, 21, Raveline St., Bombay 400001.

Shivaji Works Ltd., Tikekarwadi 413225. Solapur Dist.

Tools & Components Combine Pvt. Ltd., 10, Dhanji St., Bombay 400003.

Punjab

Doaba Hand Tools, Tanda Rd., Jullundur 144001.

Patiala Tools Corpn., 1-A, Ind. Estate, Patiala 147001.

Tamil Nadu

All Tools Pvt. Ltd., Singanallur, Coimbatore 641005.

Orient Tools & Gauges Ltd., 65, N. M. Mudaliar Rd., Madras 600029.

S. S. Engineering Works, 301, Tiruvottiyur High Rd., Madras 600021.

Technical & Engg. Products Co., C-37, Ind. Estate, Guindy, Madras 600032.

Tepco India, C-37, Ind. Estate, Madras 600032.

Uttar Pradesh

Delhi Iron & Steel Co. Ltd., Grand Trunk Rd., Ghaziabad 201001.

West Bengal

Agarwal Hardware Works Pvt. Ltd., 3A, Shakespeare Sarani Ave., Calcutta 700071.

Alfred Herbert India Ltd., 13/3, Strand Rd., Calcutta 700001.

Barson & Co., 138, B.R.B.B. Rd., Calcutta 700001.

Bengal Tools Ltd., 251-1, Nagendranath Rd., Calcutta 700028.

Bhagchandka Inds., 57/6, Barrackpore Trunk Rd., Calcutta 700002.

Bharat Shovel Works Pvt. Ltd., 15-1, Jorabagan St., Calcutta 700006.

Dominion Hardware Stores, 40, Strand Rd., Calcutta 700001.

East Coast Enterprises Ltd., 33, Brabourne Rd., Calcutta 700001.

Harbanslal Malhotra & Sons Pvt. Ltd., 18, N. Subhas Rd., Calcutta 700001.

Jay Engg. Works Pvt. Ltd., 183, P. Anwarshah Rd., Calcutta 700001.

Metal Box Co. of India Ltd., 59-C, Chowringhee St., Calcutta 700020.

Stamping & Tools Pvt. Ltd., 8, M. G. Rd., Calcutta 700041.

Sudson Pvt. Ltd., 3, Esplanade East, Calcutta 700001.

Tools & Engg. Co. Pvt. Ltd., 2, Dalhousie Sq. East, Calcutta 700001.

TOOLS—MACHINE

Andhra Pradesh

Hindustan Machine Tools Ltd., Balanagar, Hyderabad 500037.

Delhi

Ameteep Machine Tools Pvt. Ltd., 503, Surya Kiran Bldg., 19, K. Gandhi Marg, New Delhi 110001.

Ashoka Machine Tools Corpn., 8712-13, Aram Ganj, Roshanara Rd., Delhi 110007.

Elbre Machine Tools Pvt. Ltd., 6/10, Kirti Nagar Ind. Area, New Delhi 110015.

Globe Engg. Co., 7/27, Ind. Area, Kirtinagar, New Delhi 110015.

Indudyog Co. Pvt. Ltd., 40 Okhla Ind. Estate, Okhla, New Delhi 110020.

Motor & Machinery Manufrs. Ltd., 8, Sunder Nagar, New Delhi 110003.

Power Tools & Appliances Co., Kashmere Gate, Delhi 110006.

Prem Engg. Works, 22, Okhla Ind. Estate, New Delhi 110020.

United Machine Tools Corpn., B-44, Mayapuri Phase I, New Delhi 110027.

Gujarat

Gandhi Group Ind., F-4, Ind. Township, Naroda, Ahmedabad 382330.

Gujarat Machine Tools Ind., 1/10, Ind. Estate, Vadodara 390003.

Laxmi Vijay Brass & Iron Works, 647, Gheekanta Rd., Ahmedabad 380001.

Yo-tana Machine Tools, C1/10, GIDC Ind. Estate, Odhav, Ahmedabad 380021.

Haryana

Beco Engg. Co. Ltd., 23/7, Delhi Mathura Rd., Ballabgarh 121004.

Karnataka

Bharat Fritz Werner Pvt. Ltd., Peenya, Bangalore 560022.

Craft Tools Pvt. Ltd., Industrial Estate, Yantrapur 577602. (Hanhar).

Hindustan Machine Tools Ltd., Jalahalli, Bangalore 560031.

Jyothi Ind., A-18, H.M.T. Ind. Estate, Bangalore [illegible].

Sri Venkateshwara Enterprises, B-09, H.M.T. Ind. Estate, Bangalore 560031.

Maharashtra

Alex Machine Tools, 2, Sidhpura Ind. Estate, S. Vivekanand Rd., Goregaon West, Bombay 400062.

Alfred Herbert (I) Ltd., Kaiser-i-Hind Bldg., Sprott Rd., Ballard Estate, Bombay 400038.

Bharat Fritz Werner Pvt. Ltd., D-27, Commerce Centre, Tardeo, Bombay 400034.

Bharat Tool Manufg. Co. Pvt. Ltd., Fergusson Rd., Lower Parel, Bombay 400013.

Bubber Machine Tools, Bishen Udyog Premises, LBS Marg, Mulund, Bombay 400080.

Chowgule Engrs. & Machines Ltd., Bakhtawar, Nariman Point, Bombay 400021.

Cooper Engg. Ltd., Chinchwad, Pune 411019.

Godrej & Boyce Manufg. Co. Pvt. Ltd., Godrej Bhavan, Home St., Bombay 400001.

Industrial Machinery & Tools Corpn., Gokhale St., Bombay 400004.

Industrial Machinery Manufrs., 14-B, Kurla Ind. Estate, Agra Rd., Ghatkopar, Bombay 400077.

Machinery Manufg. Corpn., 68, Medows St., Bombay 400023.

Macphil & Co. Pvt. Ltd., B-3, Wagle Ind. Estate, Panchpakhadi, Thane 400604.

Power Tools & Appliances Co., Mangesh Bldg., Avantikabhai Gokhale St., Bombay 400004.

Quality Machine Tools, 25, Hamam St., Bombay 400001.

R. B. M. Poona Mills Ltd., Engg. Divn., 5, R.B.M. Rd., Pune 411001.

Super Tool Co. Pvt. Ltd., Kalina, Santa Cruz, Bombay 400029.

Tekma Ind., 48B, Saki Vihar Rd., Saki Naka, Bombay 400072.

Thakoor Machines & Tools Pvt. Ltd., "Yojana", M. Vasanji Rd., Marol Naka, Andheri East, Bombay 400059.

Y. A. Hazare & Bros., 1st Panjrapole Lane, Bombay 400004.

Punjab

Auto Machine Tools (Regd.), G.T. Rd., Millerganj, Ludhiana 141003.

Patiala Tools Corpn., 1-A, Ind. Estate, Patiala 147[illegible].

R. K. Machine Tools Pvt. Ltd., Industrial Area A, Ludhiana 141003.

Sharda Foundry & Engg. Works, G.T. Rd., Batala 143[illegible].

Tamil Nadu

Easun Engg. Co. Ltd., 5-7, Second Line Beach, Madras 600001.

Machine Tools & Accessories Pvt. Ltd., 10/9, Ambattur Ind. Estate, Madras 600058.

PSG Industrial Instt., Coimbatore 641004.

Power Tools & Appliances Co., 323, Thambu Chetty St., Madras 600001.

Shiv Machine Tools, 286, Linghi Chetty St., Madras 600001.

Sri Lakshmi Engineers, 123, Cross Cut Rd., Gandhipuram, Coimbatore 611012.

Sumathi Machine Tools, Avanashi Rd., [illegible], Coimbatore 641004.

West Bengal

ABMTM Pvt. Ltd., 21, Camac St., Calcutta 700016.

Alfred Herbert India Ltd., 13/3, Strand Rd., Calcutta 700001.

Asia Engg. Supply Stores Pvt. Ltd., P-15, Bentinck St., Calcutta 700007.

Barson & Co., 138, Canning St., Calcutta 700001.

Boyd Smiths Pvt. Ltd., B-5, Gillanders House, N. Subhas Rd., Calcutta 700001.

Continental Plant Machinery Co. Pvt. Ltd., 16, Hare St., Calcutta 700001.

G. R. Inds., 10, Jessore Rd., Calcutta 700028.

Hi-Hi-Go Machine Tools Pvt. Ltd., 40-A, Gariahat Rd., South, Calcutta 700031.

India Machinery Co. Ltd., Dassnagar, Howrah 711105.

Industrial Plants Ltd., "Industry House", 10, Camac St., Calcutta 700017.

Jessop & Co. Ltd., 63, N. Subhas Rd., Calcutta 700001.

Machine Tools & Appliances India Co., 12-B, N. Subhas Rd., Calcutta 700001.

Maya Engg. Works, Pvt. Ltd., 200/A, S. P. Mookherjee Rd., Calcutta 700026.

National Ind. Impex Corpn., 35, Stephen House, Calcutta 700001.

Oriental Electric & Engg. Co., National Tobacco Bldg., 1, Old Court House Corner, Calcutta 700001.

Paul's Engg. Co., P-7, N. Paul Rd., Howrah 711105.

Power Tools & Appliances Co., 2, B.B.D. Bag East, Calcutta 700001.

Universal Machine Tools Mfg. Co., 542, N Block, 1st Flr., New Alipore, Calcutta 700053.

TOOLS—AIR COMPRESSORS, PNEUMATIC EQUIPMENT AND SPARES

Andhra Pradesh

Nucon Industries Pvt. Ltd., 5-2175/1, Rashtrapati Rd., Secunderabad 500003.

Shriram Refrigeration Ind. Ltd., P.O. Balanagar Township, Hyderabad 500037.

Delhi

Didwania Bros. Pvt. Ltd., 9, Raj Niwas, Delhi 110006.

Industrial & Mining Equipment Co. Pvt. Ltd., Municipal Corprn. Bldg., Chowk, Shakti Nagar, Delhi 110007.

K. G. Khosla & Co. Pvt. Ltd., 1, D. Gupta Rd., New Delhi 110055.

Pneumatic Spares Ind., 1778, Lal Kuan, Delhi 110006.

Gujarat

Engg. Corpn. of India Ltd., Sidhpur 384151.

S. L. M. Maneklal Ind. Ltd., Vatva 382440. Ahmedabad Dist.

Maharashtra

Air Control & Chemical Engg. Co. Ltd., Khetan Bhavan, J. Tata Rd., Bombay 400020.

Atlas Capco (India) Ltd., M. Gandhi Memorial Bldg., N. Subhas Rd., Bombay 400002.

Consolidated Pneumatic Tool Co. (I) Ltd., 301/302, Agra Rd., Mulund, Bombay 400080.

Hindustan Engineers, 501-A, Commerce House, N. Master Rd., Bombay 400001.

Indo Air Ind., 49, Municipal Ind. Estate, Off E. Moses Rd., Worli, Bombay 400018.

Ingersoll-Rand (India) Pvt. Ltd., Maybaker House, S. K. Ahire Mrg., Bombay 400025.

Iron & Metal Traders Pvt. Ltd., P.B. 6210, Bombay 400010.

Kirloskar Pneumatic Co. Ltd., Hadapsar Ind. Estate, Pune 411013.

New Standard Engg. Co. Ltd., N.S.E. Estate, Goregaon (E), Bombay 400063.

Shubh Ind., 128, Jaygopal Ind. Estate, B. Shankar Cross Rd., Bombay 400028.

Spectro Ind. Pvt. Ltd., Shantinagar Estate, Vakola, Bombay 400055.

Taj Engg. Works, 3-3A, 1st Ghorapdeo Cross Rd., Reay Rd., Bombay 400010.

Rajasthan

Hydor India Ltd., Kota 324001.

Tamil Nadu

Elgi Equipment Pvt. Ltd., Ind. Estate, Podanur 641023. Coimbatore Dist.

K. N. D. Tool & Equipment Co., Mettupalayam Rd., P.O. Saibaba Mission, Coimbatore 641011.

West Bengal

Boyd Smiths Pvt. Ltd., B-5, Gillanders House, N. Subhas Rd., Calcutta 700001.

Hindustan Gas & Ind. Ltd., 22, New Tangra Rd., Calcutta 700016.

Holman-Climax Manufrs. Ltd., Titaghur 743188. 24-Parganas.

Industrial & Mining Equipment Co. Pvt. Ltd., 26, R. N. Mukherjee Rd., Calcutta 700001.

Tecalemit (Hind) Ltd., Gopalpur, P.O. Sarkarpul, 24-Parganas Dist.

TOOLS—TAPS, DIE TOOL, JIGS, FIXTURES ETC.

Andhra Pradesh

Hyderabad Tools Pvt. Ltd., Uppal Ind. Area, Hyderabad 500039.

Delhi

Bhartia Cutler-Hammer Ltd., 1101, New Delhi House 27, Barakhamba Rd., New Delhi 110001.

Gujarat

Premier Diecasting & Engg. Co. Ltd., Maninagar, Ahmedabad 380008.

Karnataka

Widia (India) Ltd., Tumkur Rd., Bangalore 560022.

Maharashtra

Afco Ltd., 253, A-Z Ind. Estate, Fergusson Rd., Bombay 400013.

Arifta Die & Tool Engrs., Plot A-20, Marol Ind. Area, Off Mahakali Caves Rd., Andheri East, Bombay 400059.

Asha Bros. Pvt. Ltd., 1-B, Patel Rd., Bombay 400063.

Bahco Taparia Tools Ltd., 20, S. Bhagat Singh Rd., Bombay 400001.

Electro Slush Co. Pvt. Ltd., Janmabhoomi Bhavan, Ghogha St., Bombay 400001.

Fit Tight Nuts & Bolts Ltd., Old Ashram, M. Vasanji Rd., Bombay 400069.

Forbes, Forbes Campbell & Co. Pvt. Ltd., Forbes Bldg., Home St., Bombay 400001.

Gannon Norton Metal & Diamond Dies Ltd., Bank of Baroda Bldg., Bombay Samachar Marg, Bombay 400001.

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Guest Keen Williams Ltd., Shastri Mrg., Bombay 400078.

Horstman India Pvt. Ltd., Nagar Rd., Pune 411014.

Keming Tools Co. Pvt. Ltd., 165/1, Kolshet Rd., Thane 400601.

KIV Group Ind., Sun Mill Compound, Lower Parel, Bombay 400013.

Nanavati Dies & Tools Pvt. Ltd., P. B. No. 6854, Bombay 400057.

Pitty Bros. Pvt. Ltd., 20, Hamam St., Bombay 400001.

Poona Measuring Tools Co., 60, East Kirkee, Pune 411002.

Precision Taps & Dies Pvt. Ltd., 294-3, C.S.T. Rd., Kalina, Bombay 400029.

Star Textile Engg. Works Ltd., Planet Mill Lane, Kadam Mrg., Bombay 400013.

Steel-Smith, 8, Sethi Ind. Estate, Suren Rd., Andheri East, Bombay 400093.

Super Automats, 27, Nand Deep, Opp. Marol Bazar, Andheri (East), Bombay 400059.

Tata Burroughs, Air India Bldg., 11th Flr., Nariman Point, Bombay 400021.

Tamil Nadu

Addison & Co., Pvt. Ltd., 158, Mount Rd., Madras 600002.

Armeess Engrs. Pvt. Ltd., A Super 8 & 9 Indl. Est., Guindy, Madras 600032.

J. Stead & Co. Pvt. Ltd., D-19, Ambattur Ind. Estate, Madras 600058.

Kerry Jost Tools Ltd., 8, Avadi Rd., Ambattur, Madras 600053.

NITF Tool Room, Vellore 632006.

Presmac Inds., Ambattur, Madras 600058.

Uttar Pradesh

Harig (India) Pvt. Ltd., G. T. Rd., Mahannagar, 201001.

Precision Moulds and Dies, 8/4-C, Ind. Area No. 4, babad, Ghaziabad 201005.

West Bengal

Burn & Co. Ltd., 12, Mission Row, Calcutta 700001.

Dies & Tools Ltd., 11, R. N. Mukherjee Rd., 700001.

Guest Keen Williams Ltd., 3A, Shakespeare Sarani, cutta 700016.

Holman Climax Manufrs. Ltd., Titaghur 743188.

New Dominion Engg. Works, 1/B, Pottery Rd., 700015.

Nipha Machinery Manufrs. Pvt. Ltd., 25, N. Subhas Rd., Calcutta 700001.

Precision Products of India, 10-A, Creek Lane, 700014.

Precision Tools India Ltd., 4, Synagogue St., 700001.

Taps & Dies Pvt. Ltd., P-17, Mission Row Extn., Calcutta 700013.

TOOLS — TUNGSTEN CARBIDE

Addison & Co. Pvt. Ltd., 158, Mount Rd., Madras

Asian Tools Trdgs. Co., 24, Nagdevi Cross Lane, Bombay 400003.

Carbide Tools India, Ayyanthole, Trichur 680003.

Champion Engg. Works Pvt. Ltd., S. Vivekananda Rd., Bombay 400062.

Dies & Tools Ltd., 35, Jessore Rd., Calcutta 700028.

Drillco Metal Carbides Ltd., 1187/59, Jangli Maharaj Rd., Shivajinagar, Pune 411005.

Engg. Tools Syndicate, 111, N. Dhuru St., Bombay

Ferrous Castings & Engg. Pvt. Ltd., 340, G. T. Rd., Shahdara, Delhi 110032.

Ferrous Casting & Engg. Pvt. Ltd., 33, C. R. Ave., Calcutta 700012.

Gitanjali Tubes Pvt. Ltd., Madras 600081.

India Hard Metals Ltd., 49/1, Gariahat Rd., 700019.

Indian Tools Manufrs. Ltd., 101, Sion, Bombay

Indicarb Ltd., 64, Palace Rd., Vasanth Nagar, Bangalore 560052.

Micro Tools Ltd., 153, A. Salai, Madras 600002.

P. Orr & Sons Pvt. Ltd., 200, Mount Rd., Madras

Powder Metals & Alloys Pvt. Ltd., Plot A-30, Rd. No. Wagle Estate, Thane 400604.

Sandvik Asia Ltd., Pimpri, Pune 411018.

Shama Forge Co. Ltd., Belasia Rd., Bhopal 462001.

Usha Forging & Stamping Ltd., 3, Parliament St., New Delhi 110001.

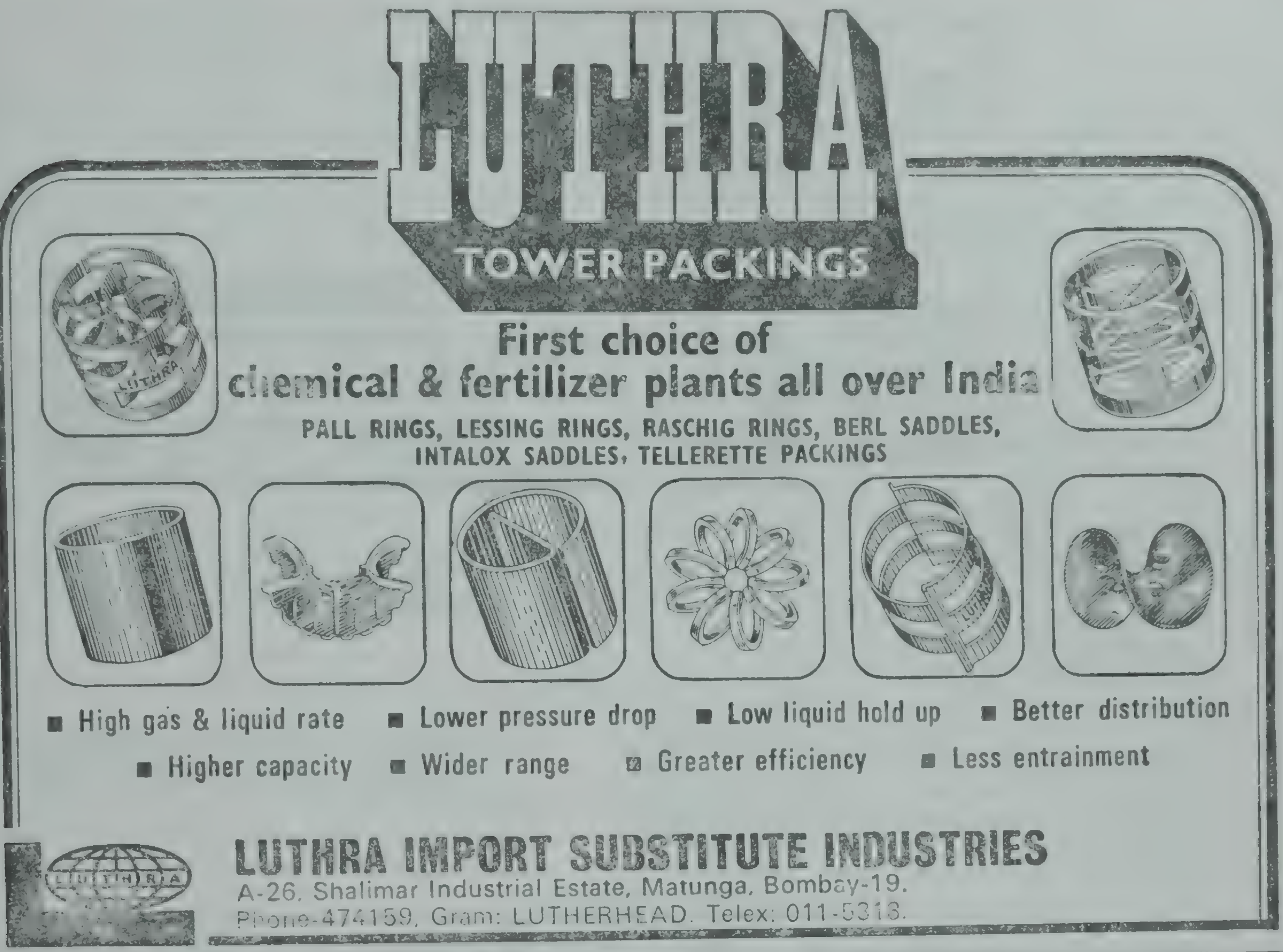
Widia (India) Ltd., Kakad Chambers Extn., 132, A. B. Rd., Bombay 400018.

TOWER PACKINGS

Bassein Ceramics Pvt. Ltd., Cooks Bldg., 324, Dr. Naoroji Rd., Bombay 400001.

Luthra Import Substitute Industries, A-26, Ind. Estate, Matunga, Bombay 400019.

Pennar Ceramic & Gen. Inds., Panipat 132103.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TOYS

Anand Toys Inds., 10795, Jhandewalan Rd., New Delhi 110055.

Electronic Toys (India), 37, B.T. Compd., Malad West, Bombay 400064.

Etak Corpn. Ltd., 101, Lady Jamshedji Rd., Mahim, Bombay 400016.

Govel Plastics Pvt. Ltd., 5/G, Veerabadrier St., Nungabakkam, Madras 600034.

Joy Toy Inds. Pvt. Ltd., 3B, Eldams Rd., Madras 600018.

Lakshmi Toys Inds., 2388, Farashkhanna, Delhi 110006.

Metal Stamping Co., Plot No. A35, Road No. 10, Wagle Ind. Estate, Thane 400604.

Plastifoams Pvt. Ltd., 4, Meher Bldg., Chowpatty, Bombay 400007.

Raja Mechanical Co. Pvt. Ltd., 33, Deputy Gunj, Delhi 110006.

Rubina Toys Inds., 1014, Kishanganj, Delhi 110006.

Tina Toys Inds., 807/8, Gali Mahaveer, Gandhinagar, Delhi 110031.

United Importers Corpn., 15/2, Paltan Rd., Bombay 400001.

Vinmold Pvt. Ltd., 11/A, T. K. Ind. Estate, A. Donde Marg (Cross Lane), Sewri, Bombay 400015.

Vohra Toys Inds., 10250, Gali Millwali, Library Rd., Azad Mkt., Delhi 110006.

TRACTORS & SPARE PARTS

Delhi

Agarwal Engg. Co., 11-A-36, Lajpatnagar, Link Rd., New Delhi 110024.

Eicher Tractors India Ltd., 13, Nehru Place, New Delhi 110024.

Escorts Ltd., 11, Scindia House, Connaught Circus, New Delhi 110001.

Harsha Tractors Ltd., 42, Janpath, New Delhi 110002.

Verma Trdg. Co., S. P. Mukherji Marg, Delhi 110006.

Gujarat

Hindustan Tractors Ltd., Vishwamitri, Vadodara 390001.

Rexroth Maneklal Industries, Shafi Manzil, Ashram Rd., Ahmedabad 380009.

Haryana

Eicher Tractors India Ltd., Faridabad 121001.

Escorts Ltd., Sector-13, Faridabad 121001.

Karnataka

Bharat Earth Movers Ltd., Unity Bldgs., Jayachamarajendra Rd., Bangalore 560002.

Hindustan Machine Tools Ltd., Bangalore 560052.

V.S.T. Tiller Tractors Ltd., M. Gandhi Rd., Bangalore 560001.

Maharashtra

International Tractor Co. of India Ltd., Akurli Village, Kandivli, Bombay 400067.

Kirloskar Tractors Ltd., Thermal Power Stn. Rd., Nasik 422101.

Maharashtra Co-op. Engg. Soc. Ltd., Shiroli, Kolhapur 416001.

Naren Kumar Machinery Co., 9, Oak Lane, Bombay 400023.

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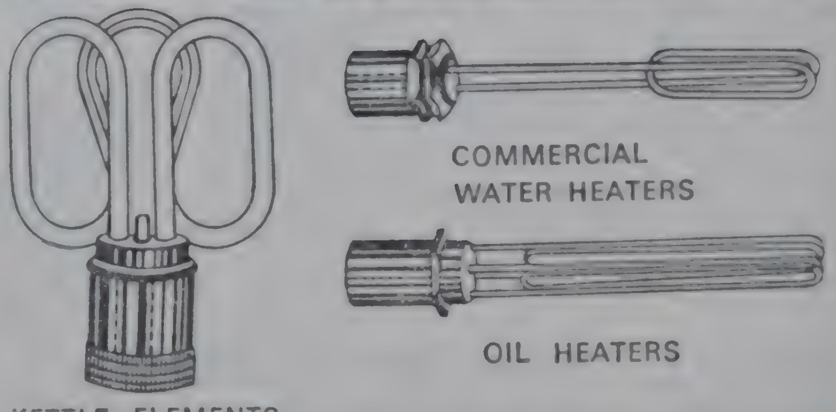

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AHMEDABAD 380 008
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Tata Engg. & Loco. Co. Ltd., Bombay House, Homi Mody St., Bombay 400023.

Tractor Engrs. Ltd., Saki-Vihar Rd., Powai, Bombay 400072.

Vasudha Farm Tools Pvt. Ltd., C-26, MIDC Ind. Area, Chikalthana 431210 (Aurangabad Dist.).

Punjab

Punjab Tractors Ltd., Sector 9-A, Chandigarh 160009.

Tamil Nadu

Kirloskar Tractors Ltd., 7/3, Pattulos Rd., Madras 600002.

Madras Tractors & Motors, 96, Mount Rd., Nandanam, Madras 600035.

Mashino India, 211, Dr. Natesan Rd., Madras 600005.

Trac Ind. & Components Ltd., 12, Cenotaph Rd., Madras 600018.

Tractors & Farm Equipment Ltd., Huzur Gardens, Sembiam, Madras 600011.

Uttar Pradesh

Tractparts of India Ltd., 4, Indl. Area, Govindnagar, Kanpur 208022.

West Bengal

Emar (India) Pvt. Ltd., 135, B.R.B.B. Rd., Calcutta 700001.

Tractors India Ltd., 1, Taratolla Rd., Calcutta 700024.

TRAILERS & TROLLIES

(See under Material Handling Equipment).

TRANSFORMERS

Andhra Pradesh

Andhra Mechanical & Elecl. Industries Ltd., 173, Fateh Maidan, North Rd., Secunderabad 500003.

Andhra Pradesh Electl. Equipment Corpn., Sanatnagar, Hyderabad 500018.

Electric Transformer & Equipment Co. Pvt. Ltd., B-29/30, Indl. Estate, Sanatnagar, Hyderabad 500018.

Bihar

Electric Equipment Factory, Punaichak, Patna 800001.

Delhi

Bharat Heavy Electricals Ltd., H. T. House, 18-20, K. Gandhi Marg, New Delhi 110001.

Kukreja Transformer Mfg. Co., A-9, Wazirpur Indl. Area, Delhi 110052.

United Electrical Ind., 14, Najafgarh Rd., New Delhi 110015.

Gujarat

Amul Transmission Line Hardware Pvt. Ltd., Parikh Estate, Dabhoi Rd., Vadodara 390004.

Continental Electronics, 177/4, Naroda Indl. Estate, Naroda 382330. (Ahmedabad Dist.).

Gujarat Transformers Pvt. Ltd., Priyadarshini, Station Rd., Maneja 391710.

Johnson Electric Co., Fatehganj, Chhani Rd., Vadodara 390002.

Transasia Transformers Pvt. Ltd., 86, Ind. Estate, Naroda, Ahmedabad 382330.

Transformer Mfg. Industries, Kapeli Dhar, Dhrangadhra 363310.

Voltamp Transformers Pvt. Ltd., Post Box 186, Vadodara 390001.

Karnataka

Electric Power Devices Co., Canara Mutual Bldg., 4, Residency Rd., Bangalore 560025.

Government Electric Factory, Mysore Rd., Bangalore 560026.

Kirloskar Electric Co. Ltd., Ind. Suburb, Rajajinagar, Bangalore 560010.

NGEF Ltd., Byappanahalli, Off Old Madras Rd., Bangalore 560038.

Swicon Pvt. Ltd., 87/16, 4th Cross K. Palayam, New Extn., Bangalore 560002.

Kerala

Kerala Electric & Allied Engg. Co. Ltd., Mamala, Cochin 682305.

Transformers & Electricals India Ltd., Angamali South 683573 (Ernakulam Dist.).

Maharashtra

Advani-Oerlikon Electrodes Pvt. Ltd., Radia House, 6, Rampart Row, Bombay 400001.

Apex Electricals Pvt. Ltd., Padam No. 1, Pedder Rd., Bombay 400026.

Argo Transformers Co. Pvt. Ltd., 187, Dr. D. Bhadkamkar Rd., Bombay 400007.

Bajaj Electricals Ltd., 45-47, V. Nariman Rd., Bombay 400001.

Bharat Bijlee Ltd., Electric Mansion, Nr. Century Bazar, Bombay 400025.

Bombay Electronics Co. Pvt. Ltd., 381, Dr. D. N. Rd., Bombay 400001.

C.T.R. Manufg. Ind. Ltd., Nagar Rd., Pune 411014.

Crompton Greaves Ltd., Kanjur, Bombay 400078.

Emco Electricals Pvt. Ltd., 106, North Kolwada Stn. Rd., Bombay 400022.

Gandhi & Co., 106, Ind. Area, Sion, Bombay 400022.

Hindustan Brown Boveri Ltd., Brown Boveri House, 264-265, Dr. A. Besant Rd., Bombay 400025.

Hindustan Instruments, 7/9, Bell Lane, Bombay 400001.

Kirti Electricals Pvt. Ltd., Shembekar Ind. Comp., Chinchwad, Pune 411019.

Metrogold Electric Stores, 60, Lohar Chawl, Bombay 400002.

National Electrical Ind. Ltd., Ind. Estate, Lalbaug, Bombay 400012.

Nissen Transformers Pvt. Ltd., 12A, Marol Rd., Andheri East, Bombay 400059.

Power & Control Transformer Ind. Pvt. Ltd., Feltham House, Graham Rd., B. Estate, Bombay 400038.

Pragati Electricals Pvt. Ltd., 280/3, 2nd Pokhran Rd., Thane 400601.

Precision Instruments Corpn., 101, Arun Chambers, Tardeo, Bombay 400034.

Star Delta Electricals, Bharat Coal Compd., Bail Bazar, Kurla, Bombay 400070.

Sukson Ind., 16/3, Jawaharnagar, Road No. 2, Goregaon (West), Bombay 400062.

Swastik Electric & Engg. Co., 7/73, Bhaudaji Rd., Bombay 400019.

Tata Merlin & Gerin Ltd., off 2nd Pokhran Rd., Thane 400601.

Technosynd Engrs., A-192, Rd. A., Wagle Estate, Thane 400604.

Punjab

Beegee Corpn., Pvt. Ltd., 25, Factory Area, Patiala 147002.

Tamil Nadu

Elahi Electronics, 5, Madduvankarai St., Madras 600016.

Hackbridge Hewittic & Easun Ltd., 5-7, Second Line Beach, Madras 600001.

Kappa Electricals, 10, Mount Rd., Madras 600015.

Meenakshi Electronics, 1, Ritchie St., Madras 600002.

Transformers and Switchgears Ltd., 2, Lattice Bridge Rd., Madras 600020.

Uttar Pradesh

Darbari Inds., 24, Canning Rd., Allahabad 211001.

West Bengal

Andrew Yule & Co. Ltd., 8, Clive Row, Calcutta 700001.

Associated Trades, 1, Chandni Chowk St., Calcutta 700013.

Biecco Lawrie Ltd., 21, N. Subhas Rd., Calcutta 700001.

Brentford Electric (I) Pvt. Ltd., 8, Clive Row, Calcutta 700001.

Cieco Pvt. Ltd., 2/1, B. T. Rd., Calcutta 700050.

East India Electricals, 38, N. Subhas Rd., Calcutta 700001.

Electric Construction and Equipment Co. Ltd., 9, K. Singhee Rd., Calcutta 700002.

Elvoc Pvt. Ltd., 36, Panditia Rd., Calcutta 700029.

General Electric Co. of India Ltd., Magnet House, 6, Chittaranjan Ave., Calcutta 700013.

Hengers India Pvt. Ltd., Narayani, 59-B, Chowringhee Rd., Calcutta 700020.

Hooghly Marine & Engg. Co., 27/2C, Strand Rd., Calcutta 700001.

India Radio Manufg. Co., 18, Chandni Chowk St., Calcutta 700013.

Kanubhai Engrs. Pvt. Ltd., 3, Mangoe Lane, Calcutta 700001.

Marson's, 4 Chandni Chowk St., Calcutta 700013.

Radio and Accessories (India) Pvt. Ltd., 3, Madan St., Calcutta 700013.

Tarit Appliances & Equipment Pvt. Ltd., IOB, Ekdalia Place, Calcutta 700019.

Transformers & Electricals (India), 83, Chowringhee Rd., Calcutta 700020.

Voltamp Electricals Pvt. Ltd., P-15, New C.I.T. Rd., Calcutta 700073.

TUBES, PIPES & FITTINGS

(Also see Steel Tubes & Pipes & Fittings).

Andhra Pradesh

Triniti Metal Ind., A-5, Co-op. Ind. Estate Ltd., Balanagar, Hyderabad 500037.

Ushasri Ind., C-12, Co-op. Ind. Estate, Balanagar, Hyderabad 500037.

Assam

Assam Tubes Ltd., Sibsagar 785640.

Bihar

Indian Tube Co. Ltd., P. B. No. 481, Jamshedpur 831001.

Stewart & Lloyds of India Ltd., Jamshedpur 831007.

Delhi

Ajanta Tubes Ltd., D-20, Con. Place, New Delhi

Bharat Steel Tubes Ltd., Allahabad Bank B Parliament St., New Delhi 110001.

Delhi Tubes Pvt. Ltd., 23, South Extn., New Delhi 110

G.F.R. & Co. Pvt. Ltd., 8200/XIV Chimy Mill St., Hindu Rao, Delhi 110006.

Jain Tube Co. Ltd., Jain Bhavan, Hauz Qazi, 110006.

Jindal Ind. Pvt. Ltd., 15/1, A. Ali Rd., New Delhi

Karori Engg. Works, 16, Najafgarh Rd., New Delhi

Pearl Engg. Works, 1669-B, Dakni Rai St., New Delhi 110002.

Prakash Tubes Ltd., 21 A, Kirti Nagar, New Delhi

Super Tubes Pvt. Ltd., D-18, Conn. Place, New 110001.

United Steel Ind., X-242, Near Delhi Gate, Delhi

Wazir Singh & Co., 10/5, Jhilmil Indl. Area, Delhi 110032.

Gujarat

Baroda Rolling Mills Pvt. Ltd., Chhani Rd., 390002.

Enterton Systems, D-6, Ind. Estate, Vadodara

Foldage Ind. Pvt. Ltd., Dhebarbhai Rd., Rajkot

Gujarat Steel Tubes Ltd., Kali Village, Sabarmati Ahmedabad 380005.

Shri Ambica Tubes, Kankaria Loco Siding, Ahmedabad 380008.

Zaverchand Gaekwad Pvt. Ltd., Padra Rd., Vad 390001.

Haryana

Prakash Tubes Ltd., Prakash Nagar, Bahadurgarh

Madhya Pradesh

Steel Tubes of India Pvt. Ltd., 27-34, Ind. Estate, 452001.

Maharashtra

Ashoka Pipe Manufg. Co., 134, D. Parikh Kalbadevi, Bombay 400002.

Bombay Tubes & Poles Co., 2nd Lane, Mazgaon, Bombay 400010.

Dodsal Pvt. Ltd., Mafatlal House, Backbay Recl., 400020.

Exceltube Traders, 134, Reay Rd., Bombay

Gupta Tubes & Pipes Pvt. Ltd., 37, Baroda St., 400009.

Impex Tube Manufg. Co. Pvt. Ltd., Jamshedji Cross Rd. No. 1, Bombay 400016.

India Tube Mills & Metal Industries Ltd., Shastri Opp. Powai Lake Rd., Bombay 400083.

Jayant Dalal Ltd., A-4/B-2, MIDC Ind. Area, Bombay 400093.

Kamani Tubes Ltd., Kamani Chambers, 32, Kamani Marg, Ballard Estate, Bombay 400038.

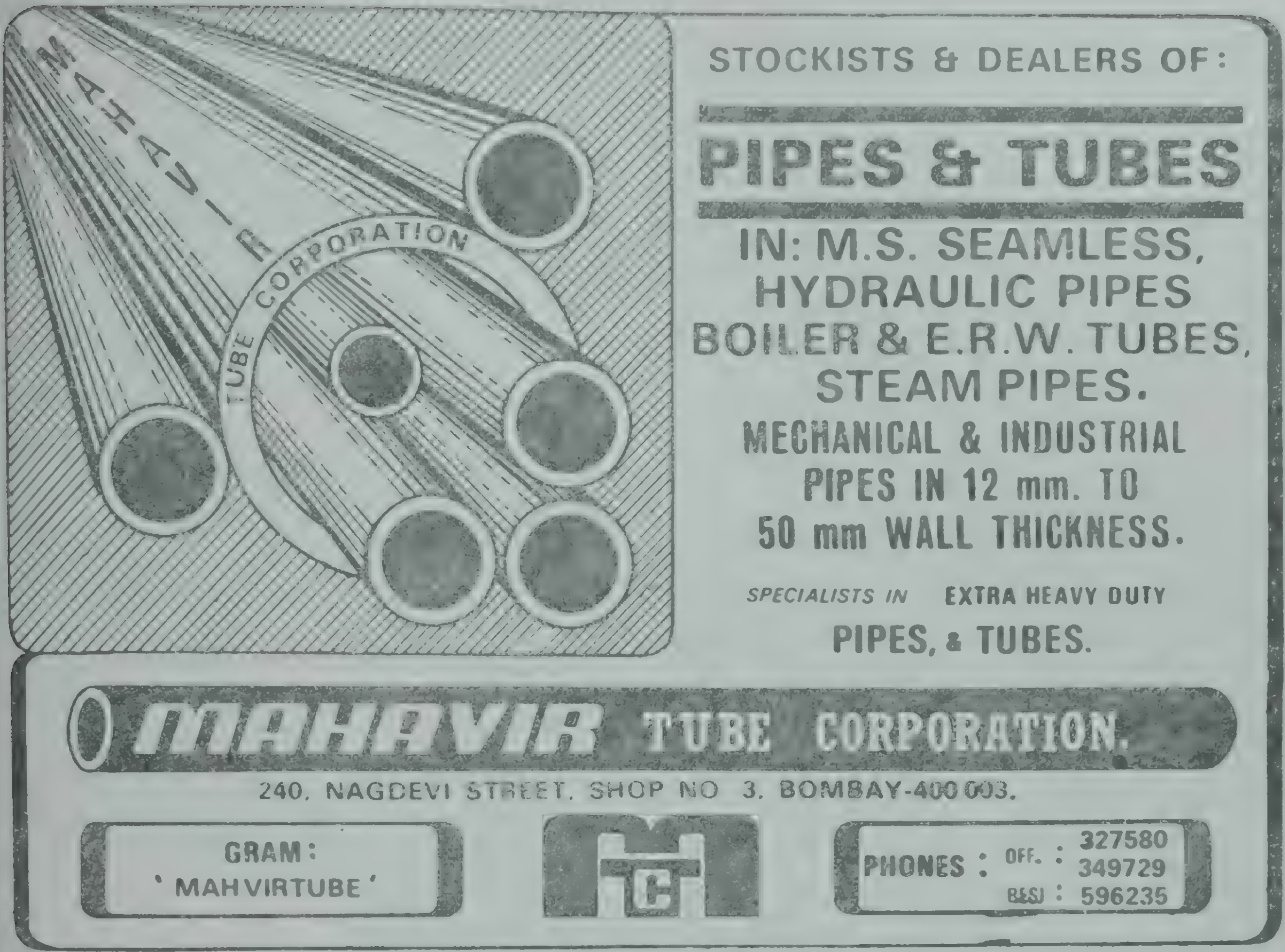
Khandelwal Tubes, Khandelwal Bhavan, 79 87, Path, Bombay 400033.

Lu Bra Dis, 2-B, Bibijan St., Bombay 400003.

M. J. Patel & Co. Pvt. Ltd., 116, P. D'Mello Rd., 400009.

M. M. Ebrahimji & Co., 147, Nagdevi St., Bombay

Mahavir Tube Corpn., 240, Nagdevi St., Bombay



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RESI: 596235

Maheshwari Enterprises, 142, A-Z, Industrial Estate, Fergusson Rd., Bombay 400013.

Metal Distributors Ltd., Udyog Bhavan, W. Hirachand Mrg., B. Estate, Bombay 400038.

Metal Extruders (India) Pvt. Ltd., Kamani Chambers, Nicol Rd., B. Estate, Bombay 400038.

Mini Tube Inds., Shanta Nivas, Block 2, Dixit Rd. Extn., V. Parle East, Bombay 400057.

Rasiklal Kantilal & Co., 145, Kika St., Bombay 400004.

Subedar Inds., 48A, Magazine St., Bombay 400010.

Sumeep Enterprises, 192/206, A. Rehman St., Bombay 400003.

Surindra Engg. Co. Pvt. Ltd., Safed Pool, M. V. Rd., Bombay 400072.

Teekay Tubes P. Ltd., 315/17, Navrattan, P. D'Mello Rd., Bombay 400009.

Tubes India, 78/80, Kika St., Bombay 400004.

Zenith Steel Pipes Ltd., Moti Mahal, 195, Churchgate Recl., Bombay 400020.

Orissa

Kalinga Tubes Ltd., P.O. Chowdwar 754025, Cuttack Dist.

Rajasthan

Ahuja Industries, B-85, Ind. Estate, Bais Godown, Jaipur 302006.

Indo-Flex Pvt. Ltd., Jaipur 302001.

Tamil Nadu

Apollo Tubes Ltd., 147, Mount Rd., Madras 600006.

K.C.P. Ltd., Mount Rd., Madras 600006.

Khandelwal Tubes, 23, Mooker Nallamuthu St., Madras 600001.

Kwality Industries, B/4, Industrial Estate, Ambattur, Madras 600058.

Madras Tube Co. Ltd., 7, Boat Club Rd., Madras 600028.

Tube Investment of India Ltd., N. Beach Rd., Madras 600001.

Tubes & Malleables Ltd., 99, Armenian St., Madras 600001.

Tube Products of India Ltd., 52-53, Jehangir St., Madras 600001.

Uttar Pradesh

Ajanta Tubes Ltd., Jain Ind. Estate, 38 Km.,Delhi Hapur Rd., Ghaziabad 201001.

Quality Steel Tubes Pvt. Ltd., 133/1, Juhi Gaushala, Kanpur 208004.

Reliable Water Supply Services of India Ltd., 17, Gokhale Marg, Lucknow 226001.

West Bengal

Bharat Steel & Metal Ind., 14/2, Old China Bazar St., Calcutta 700001.

Castings Corpn. (India) Pvt. Ltd., 45, M. P. Chowdhury Lane, Howrah 711101.

Crawley & Ray (Founders & Engrs.) Pvt. Ltd., 32, Foreshore Rd., P.O. Botanic Gardens, Howrah 711103.

Hind Overseas (Pvt.) Ltd., 7, N. P. Babu Lane, Calcutta 700016.

Indian Tube Co. Ltd., 43, Chowringhee Rd., Calcutta 700016.

Jindal India Pvt. Ltd., Liluah 711204, Howrah Dist.

Kalinga Tubes, 44, J. L. Nehru Rd., Calcutta 700071.

Kamala Sheet Metal Ind. Pvt. Ltd., 98 & 99, Beliaghata Main Rd., Calcutta 700010.

Kedarnath Parsothamdas & Co. Pvt. Ltd., 37, N. Subhas Rd., Calcutta 700001.

Kesoram Spun Pipes & Foundries, Industry House, 10, Camac St., Calcutta 700017.

Khandelwal Tubes, 5/2, Russel St., Calcutta 700071.

Laxmi Trdg. Co., 192, J. Bajaj St., Calcutta 700007.

M. Chandra & Co., 22, Rabindra Sarani, Calcutta 700001.

Miller & Co. (Calcutta) Pvt. Ltd., 24, N. Subhas Rd., Calcutta 700001.

Orr Dignam & Co., Ltd., 29, N. Subhas Rd., Calcutta 700001.

Patcon Pvt. Ltd., 7A, Elgin Rd., Calcutta 700020.

Planter's Stores & Engg. Co., Mercantile Bldg., 9, Lallbazar St., Calcutta 700001.

Rajasthan Pipes Pvt. Ltd., Bochhraj Rd., Nimta, Calcutta 700049.

Satish Chandra Karuri & Sons, 10/6, B. Mullick Lane Howrah 711101.

Shree Hanuman Steel Works, 30-H/1, Canal (E.) Rd., Calcutta 700011.

Shree Inds., 2, G. C. Ave., Calcutta 700013.

Stewarts & Lloyds of India Ltd., 41, Chowringhee Rd., Calcutta 700016.

TUBEWELL MACHINERY & ACCESSORIES

Allied Tubewell Development Corpn., P-296, Darga Rd., Calcutta 700017.

Associated Tubewells India Pvt. Ltd., 9/1, Darga Rd., Calcutta 700017.

Calcutta Filter Manufg. Co., 62/1A, N. Subhas Rd., Calcutta 700001.

Delhi Engg. Works Pvt. Ltd., 454, Azadpur, Delhi 110033.

F. Husain & Bros., 28, Strand Rd., Calcutta 700001.

Ganapathi Engg. Manufrs., Ganapathi, Coimbatore 641006.

Hyderabad Alloy Foundries Pvt. Ltd., 7-1-79, Ameerpet, Hyderabad 500016.

Imperial Tubewell Co., 161/1, M. G. Rd., Calcutta 700007.

Indian Drilling & Mining Co. Pvt. Ltd., 67B, N. S. Rd., Calcutta 700001.

International Strainer Co. Pvt. Ltd., 161/1, M. G. Rd., Calcutta 700007.

Kadakia Trdg. Corpn., 3, Bibijan St., Bombay 400003.

Larsen & Toubro Ltd., L & T House, Ballard Estate, Bombay 400038.

Life Tubewells Pvt. Ltd., 166, C.S.T. Rd., Vidyanagari Mrg., Bombay 400098.

Pioneer Tubewell Inds. Pvt. Ltd., 7, R. S. Mullick Sqr., Calcutta 700013.

Reliable Water Supply Service of India Pvt. Ltd., 1/11, E. Patel Nagar, New Delhi 110008.

Wellwater Services Pvt. Ltd., P. K. Law Bldg., 63, Radha Bazar St., Calcutta 700001.

TUBULAR STRUCTURES & PRODUCTS

Buildworth Ltd., G. S. Rd., Dispur, Gauhati 781005.

Khandelwal Mfg. Corpn. Pvt. Ltd., Khandelwalnagar, Bhandup, Bombay 400078.

Patcon Pvt. Ltd., 7A, Elgin Rd., Calcutta 700020.

Steelfab Engg. Corpn., Ismail Bldg., Dr. D. N. Rd., Bombay 400001.

Steelite Engg. Corpn., 8, Nanabhai Lane, Bombay

Stewarts & Lloyds of India Ltd., 41, Chowringhee Calcutta 700071.

TURPENTINE & ROSIN

Dujodwala Ind., 1401, Prasad Chambers, 14th Bombay 400004.

Empee Corpn. Pvt. Ltd., 44, Cawasji Patel St., Bombay 400001.

Himachal Govt. Rosin & Turpentine Factory, 173001.

Jammu Rosin & Turpentine Factory, Miransahib, 180001.

Prabhat General Agencies, 195, Kalbadevi Rd., Bombay 400002.

TYPEWRITERS & ACCESSORIES

Facit Asia Ltd., Perungudi, Madras 600096.

Godrej & Boyce Manufg. Co. Pvt. Ltd., Lalbaug, Bombay 400012.

Hindustan Teleprinters Ltd., Guindy, Madras 600032.

Kores (India) Ltd., Plot No. 10, Off Dr. E. Moses Rd., Worli, Bombay 400018.

Rai & Sons Pvt. Ltd., 9-19, Connaught Place, New Delhi 110001.

Rayala Corpn. Madras Pvt. Ltd., 25A, Mount Rd., Madras 600032.

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Vice-President : R. B. Deora.
Secretary : C. L. Banthia.
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Arco Agencies, Arco House, Gunbow St., Bombay 400001.

Champion Engg. Works Pvt. Ltd., S. Vivekanand Rd., Bombay 400062.

Crescent Tools Corpn., 48-A, Govindpura Ind. Area, Raisen Rd., Bhopal 462001.

Ebrahim Currim & Sons, 251, N. Subash Rd., Madras 600001.

Hind Umbrella Manufg. Co., 201, Chakla St., Bombay 400003.

M. L. Mansukhani & Co. Pvt. Ltd., 69, S. Gandhi Marg, Bombay 400002.

Nagjee Purushotham & Co. Pvt. Ltd., 94/96, Princess St., Bombay 400002.

Rajputana Traders, 65, Babu Genu Rd., Bombay 400002.

Royal Umbrella Mart, 284, A. Rehman St., Bombay 400003.

VACUUM FLASKS

Ajanta Vaccum Flask Manufg. Co., M. Mohantola St., Calcutta 700005.

Eagle Vacuum Bottle Manufg. Co. Pvt. Ltd., 144, S. Devji St., Bombay 400003.

Hindustan Vacuum Glass Ltd., New Ind. Township, Faridabad 121001.

J. G. Vaccum Flask Pvt. Ltd., Bombay Poona Rd., Pimpri, Pune 411018.

Shree Gobindo Glass Works, 9, Ezra St., Calcutta 700001.

Victory Flask Co. Pvt. Ltd., Kachwadi, Govandi, Bombay 400071.

VALVES & COCKS

Andhra Pradesh

Narne Tulaman Manufrs. Pvt. Ltd., Balanagar Township, Hyderabad 500037.

Ushasri Ind., Ind. Estate, Balanagar, Hyderabad 500037.

Delhi

R. D. Varma & Co. P. Ltd., 28, Barakhamba Rd., New Delhi 110001.

Tiger Locks Ltd., 119, Ansal Bhawan, 18, K. Gandhi Mrg., New Delhi 110001.

Gujarat

Abdul Samad Abdul Kadar & Sons, 1839, Panchpatti, Kalupur, Ahmedabad 380001.

Everest Ind. Corpn. Pvt. Ltd., Pratapnagar, Dabhol Rd., Vadodara 390004.

Hitvic Engg. & Mfg. Co. Pvt. Ltd., 9/2, Vithal Udyognagar, Vallabh Vidyanagar 388120.

Kumar Engg. Co., Behind Sukhram Nagar, Ahmedabad 380021.

M. H. [illegible] 380001.

Mascot (India), 166/167, G.I.D.C., Naroda, Ahmedabad 382330.

Vikram Valves, Cl-33, Ajit Ind. Estate, Rajkot 360003.

Welknown Bros., Near Zakaria Masjid, Relief Rd., Ahmedabad 380001.

Karnataka

Myer (India) Pvt. Ltd., 16, Queen's Rd.,

Triton Valves Ltd., 27, K. H. Rd., Bangalore

Vijay Engg. & Trdg. Co., 3/2, St. Marks 560001.

Maharashtra

Acme Manufg. Co., Ltd., Antop Hill, 400031.

Akay Inds., A Block, Shivsagar Estate, Dr. Bombay 400018.

Allied Hydro-Pneumatic Equipment, 2/A, Bombay 400001.

Asvik Inds., Patanwala Estate, Agra Rd., Bombay 400086.

Audco India Ltd., L. & T. House, B. 400038.

Avcon Tools Pvt. Ltd., 23/24, Nandu Ind. kali Caves Rd., Andheri East, Bombay

BSJ Shau Mfrs. (India), A-6, MIDC Area, Nagpur 440016.

Bal Associates, Plot No. 6, Sewree Cross Rd., 400015.

Bird & Co. Pvt. Ltd., United Bank of India Bldg., P. Mehta Rd., Bombay 400001.

Blanden Cole, Rang Udyan, S.T. Rd., 400016.

Bombay Metal & Alloys Mfg. Co. Pvt. Ltd., St., Near Reay Rd. Stn., Bombay 400010.

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Perfect Engg. Products Pvt. Ltd., D-9, Rd. No. 32, Wagle Indl. Est., Thane 400604.

Perry Valve Mfg. Co., 184, Samuel St., Bombay 400009.

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Precipneum Valve Mfrs., Piramal Ind. Estate, Vivekanand Rd., Bombay 400062.

Premier Valves & Rubber Industries, A/11, Ghatkopar Indl. Estate, L. B. S. Mrg., Bombay 400086.

Pressure Tubes & Valves Co., 76, Bhajipala Le., Bombay 400003.

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Bir Engg. Works, G. T. Rd., Jullundur 144001.

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Monica Electronics Pvt. Ltd., 87, DSIDC, Okhla Complex, Phase II, New Delhi 110020.

Packard Agencies, 4736/23, Ansari Rd., New Delhi 110002.

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Sandoz (India) Watch Industries, B-20, Jhilmil Indl. Area, Shahdara, Delhi 110032.

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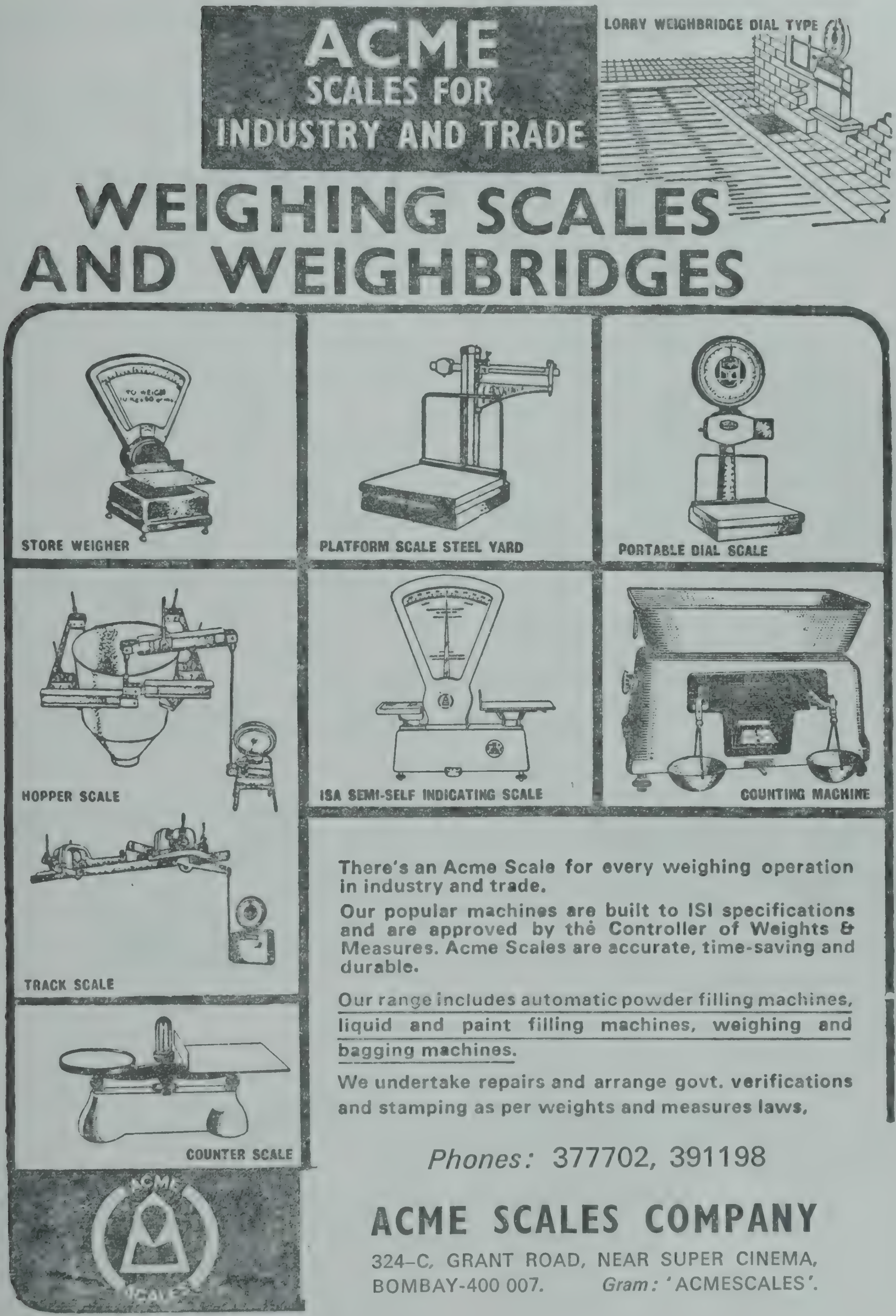
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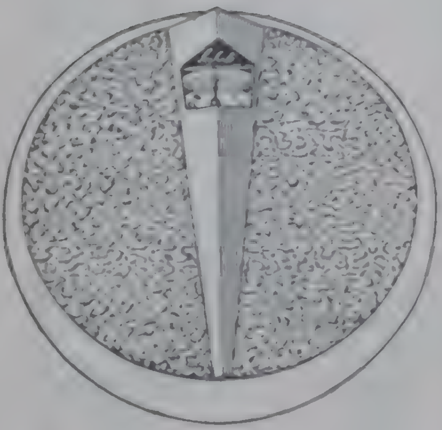

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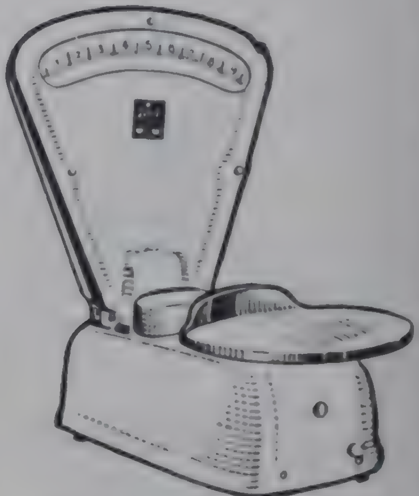

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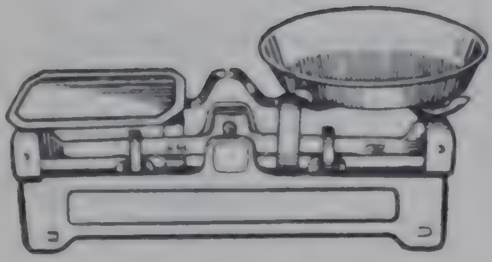

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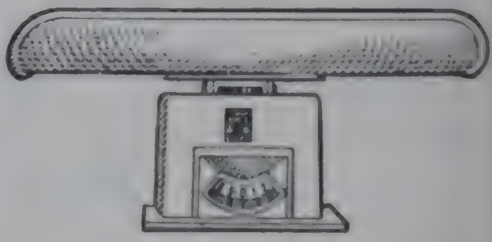

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Electric Transformer & Equipment Co., B-29/30, Indl. Est., Sanatnagar, Amirpet, Hyderabad 500018.

Prefab Gratings Ltd., 44/3 RT, Sanjeevareddy Nagar, Hyderabad 500018.

Southern Electrodes Pvt. Ltd., Moula Ali, Hyderabad 500017.

Delhi

Bharat Electric Works, 22, Qutab Rd., Delhi 110006.

Chawla Arc Welding Transformers, 1478, S. P. Mukherjee Marg, Delhi 110001.

H. S. Balbir & Bros., A-14, Rana Pratap Bagh, Delhi 110007.

Jai Gopal Engg. Works, F-3/7, Krishna Nagar, Delhi 110051.

Prakash Ind., 171-A, Ramnagar Extn., Delhi 110051.

Rajindra Electric Works, 3539, Qutab Rd., Delhi 110006.

Sham Ravindra & Co., 23, New Qutab Rd., Delhi 110006.

Tejindra Electric Works, 24, New Qutab Rd., Delhi 110006.

Goa

Goa Super Electrodes Pvt. Ltd., SA-10, Indl. Estate, Zuarinagar 403726.

Gujarat

Axon Controls, E/2, Ind. Estate, Gorwa Rd., Vadodara 390003.

Bharat Forge & Press Ind., Plot No. 35, G.I.D.C. No. 2/A1, Makarpura Ind. Estate, Vadodara 390009.

Cema Pvt. Ltd., Opp. D. Cabin, Chhani Rd., Vadodara 390001.

Welding Rods Manufg. Co., Udyognagar, Udhna 394210.

Karnataka

F. Fibre (Bangalore) Pvt. Ltd., A-83, Ind. Estate, Rajajinagar, Bangalore 560044.

Kirloskar Electric Co. Ltd., Ind. Area, Bangalore 560010.

Widia (India) Ltd., 8/9th Mile, Tumkur Rd., Bangalore 560022.

Maharashtra

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Alps Trdg. Co., 49-57, Bibijan St., Bombay 400003.

Arc Brazer Pvt. Ltd., 20, Jackeria Bunder Rd., Cotton Green, Bombay 400033.

Asian Metal Inds., 91, Kika St., Gulalwadi, Bombay 400004.

Automatic Elec. Pvt. Ltd., Rectifier House, Wadala, Bombay 400031.

Chemi Weld Inds., 187, Dr. D. N. Rd., Near Central Camera, Bombay 400001.

Daga Udyog, 32, Dr. Wilson St., Bombay 400004.

Deepak Inds., 17, Sitafaldi, Dr. Mascarenhas Rd., Mazgaon, Bombay 400010.

Dowell's Elektro Works, Satguru Estate, Off Aarey Rd., Goregaon (East), Bombay 400063.

EBY Industries, Bldg. No. 2, Tank St., Nagpada, Bombay 400008.

Estiwelding Corpn., 254, Nagdevi St., Bombay 400003.

Fatehchand & Co., 118, Arun Chambers, Tardeo Rd., Bombay 400034.

General Electrodes & Equipment Ltd., Jiji House, Ravelin St., Bombay 400001.

General Engg. Corpn., Samroz Ind. Estate, Bombay 400062.

Hasmukh Traders, 8, Jawahar Nagar, S. V. Rd., Goregaon, Bombay 400062.

Hind Rectifiers Ltd., Lake Rd., Bhandup, Bombay 400078.

Indian Oxygen Ltd., L. B. Shastri Marg, Ghatkopar West, Bombay 400086.

Indl. Manufg. Syndicate, 22 D, Zaveri Bldg., 12, Khotwadi, Bombay 400004.

Jai Balaji & Co., Opp. A. C. Mkt., 84, AB, Tardeo Rd., Bombay 400034.

Jaya Hind Sciaky Ltd., D-1 Block, Plot No. 181, Chinchwad, Pune 411019.

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Kayjay Engineers, 123, Mahatma Gandhi Rd., Bombay 400023.

Kejee Electric Co., A-121, H. Block, M.I.D.C., Pimpri, Pune 411018.

Khosla Engg. Pvt. Ltd., 43, Aundh Rd., Kirkee, Pune 411003.

Larsen & Toubro Ltd., L & T House, Ballard Estate, Bombay 400038.

Malik & Co., 143/149, Maulana Shawkatali Rd., Two Tanks, Bombay 400004.

Malik Electricals Pvt. Ltd., Tejpaul's Compd., Kurla-Andheri Rd., Saki Naka, Bombay 400072.

Mechelonic Welders Pvt. Ltd., E/5, Nand-Dham Ind. Estate, Marol, Andheri, Bombay 400059.

Metasafe Trading Corpn., 65, Apollo St., Bombay 400023.

Parekh Bros. Pvt. Ltd., 65, M. Gandhi Rd., Bombay 400023.

Philips India Ltd., Welding Divn., Shivsagar Estate, Block A, Worli, Bombay 400018.

Power Pack Enterprises, Old Nagardas Rd., Andheri East, Bombay 400069.

Shree Shamalji Ind., 15-D, Agiary Lane, Kalbadevi, Bombay 400002.

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Technical Auto Welding Works, 362, V. P. Rd., Bombay 400004.

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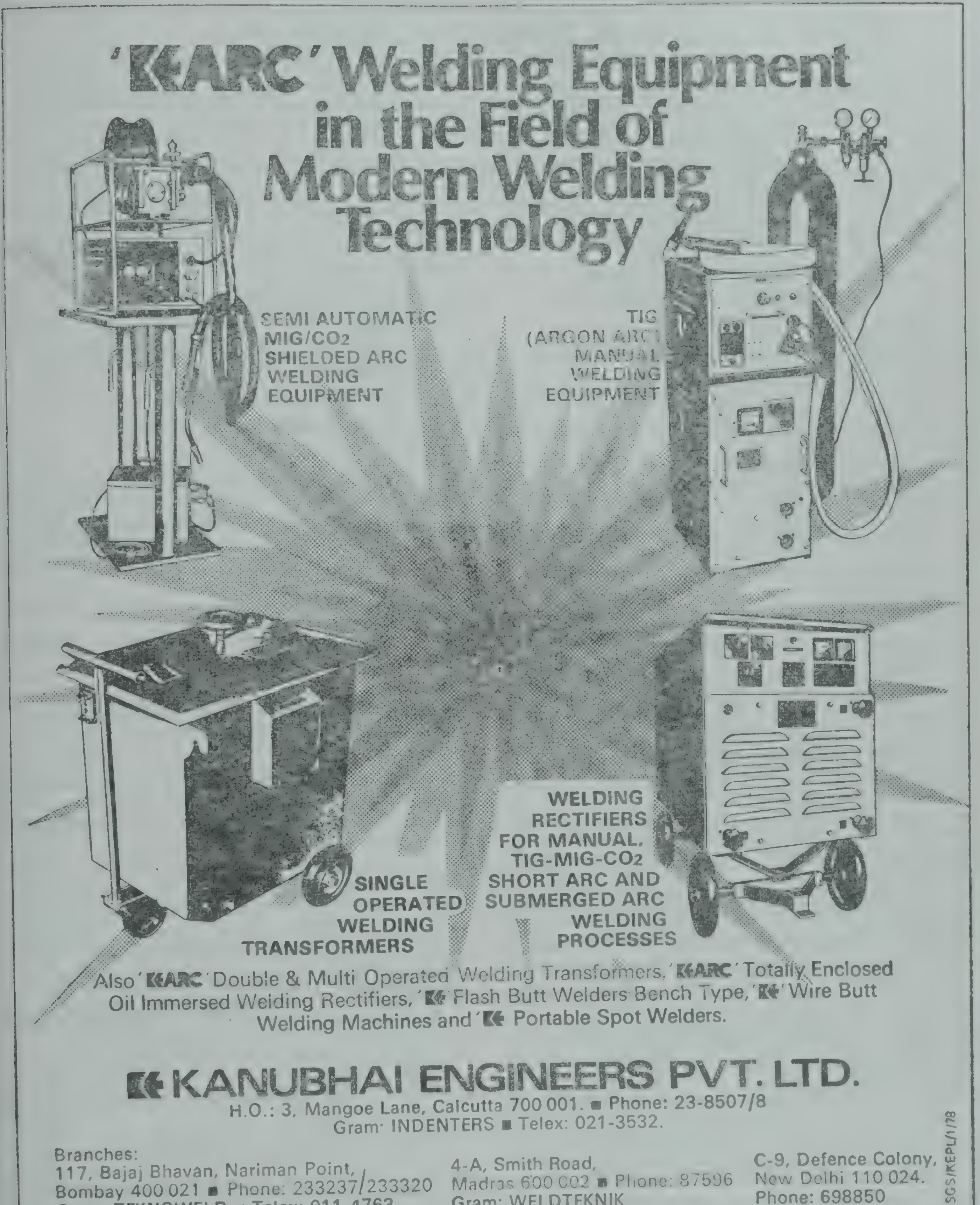

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Asiatic Engg. Services, 28-F, Wallers Rd., Madras 600002.

Industrial Enterprises, 57, General Patters Rd., Madras 600002.

Mardia Ind. Corpn., Ind. Estate, Vysarpadi, Madras 600039.

Rockweld Electrodes India Ltd., 29, Ind. Estate, Ambattur, Madras 600058.

Shenoy Electl. Inds., K-2, Vyasarpadi Ind. Estate, Erukancheri High Rd., Madras 600039.

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Maheshwari Ind. Corpn., Sarrafa, Meerut 250001.

Modi Arc Electrodes, Modinagar 201204 (Meerut Dist.).

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Daga Udyog, 418, Brajodulal St., Calcutta 700006.

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Gujarat

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Harishchandra & Co , 233, A. Rehman St., Bombay 400003.

Hindustan Transmission Products, Shree Niketan, F Block, Shiv Sagar Estate, Worli, Bombay 400018.

India Steel Inds., 134, N. Dhuru St., Bombay 400003.

Laxmi Wire & Metal Industries, 202, Arun Chambers, 2nd Flr., Tardeo Rd., Bombay 400034.

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Mohatta & Heckel Ltd., Mustafa Bldg., Sir P. Mehta Rd., Bombay 400001.

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N. J. Metal Screens Manufrs. Pvt. Ltd., 134, N. Master Rd., Bombay 400001.

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Rainbow Iron Works, 113, A. Rehman St., Bombay 400003.

S. Mehta & Co., Anees Chambers, Near Carnac Bridge, Bombay 400001.

Shree Ganesh Wire Ind., 26/28, Bapu Khote Crosslane, Bombay 400003.

Shree Wire Rope Mfg. Co., Hanuman Silk Mills Compd., Opp. Dock Yard Colony, Bhandup, Bombay 400078.

Siriram & Co., 97, N. Dhuru St., Bombay 400003.

Standard Wire Products, 83, Maharshi Karve Marg, Bombay 400020.

United Wire Ropes Ltd., Vulcan Ins. Bldg., V. Nariman Rd., Bombay 400020.

Pondicherry

Pondy Welded Mesh, Valudavur Rd., Muthirapalayam, Pondicherry 605010.

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Globe Industrial Corpn., 171/173, Nainyappa Naicken St., Madras 600003.

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Kiran Wire Netting Co., 260, Rasappa Chetty St., Madras 600003.

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Hindustan Wires Ltd., 3A, Shakespeare Sarani, Calcutta 700013.

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Steel & Wire Products (India), 38, B. K. Paul Ave., Calcutta 700005.

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Universal Cables Ltd., P.O. Birla Colony, Satna 485005.

Maharashtra

Ajit Wire Ind. Pvt. Ltd., 58, Sir M. Vissanji Rd., Andheri East, Bombay 400059.

All-India Electrical Engg. Co., 199, Princess St., Bombay 400002.

Asian Cables Corpn. Ltd., Nirmal, 241/242, Nariman Point, Bombay 400021.

B. R. Steel Products Pvt. Ltd., 29-30 Vaswani Mansion, Dinshaw Vachha Rd., Bombay 400020.

Bhandary Metallurgical Corpn. Pvt. Ltd., Bhandary Estate, Sion-Chembur Rd., Kurla East, Bombay 400070.

Bharat Cables Pvt. Ltd., Sadan Wadi, Bhandup, Bombay 400078.

Bharat Insulation Co., Plot No. B-32, Rd. No. 18, Wagle Ind. Estate, Thane 400604.

Cable Corpn. of India Ltd., Laxmi Bldg., 6, Ballard Rd., Bombay 400038.

Crompton Greaves Ltd., Kanjur, Bombay 400078.

Devidayal Cable Ind. Ltd., Reay Rd., Bombay 400010.

Finolex Cables Ltd., 25/27, Bombay Pune Rd., Pimpri, Pune 411018.

Fort Gloster Inds. Ltd. (Cable Dn.), 121/122, Mittal Chambers, Nariman Point, Bombay 400021.

Henley Cable India Ltd., Henley House, Ballard Estate, Bombay 400038.

Hindustan Transmission Products, Shree Niketan, Shiv Sagar Estate, Dr. A. Besant Rd., Bombay 400018.

Markeel Pvt. Ltd., Shreeji Bhavan, Lohar Chawl, Bombay 400002.

Oriental Power Cables Ltd., Narang House, 34, C.S.M. Mrg., Bombay 400039.

Plasticables Pvt. Ltd., 36, Dalal St., Bombay 400023.

Power Cables Pvt. Ltd., Mahul Village, Bombay 400078.

Remsons Cables Pvt. Ltd., 88-B, Govt. Indl. Estate, Kandivli (West), Bombay 400067.

Record Electricals Pvt. Ltd., 'Record House', 30, Ind. Estate, M. Gandhi Rd., Kandivli (West), Bombay 400067.

Shakti Insulated Wires Pvt. Ltd., 22, Apollo St., Bombay 400023.

Shamsher Sterling Cable Corpn. Ltd., Kirol Rd., Ghatkopar, Bombay 400077.

Siemens India Ltd., 134-A, Dr. A. Besant Rd., Worli, Bombay 400018.

Special Steels Ltd., Dattapada Rd., Borivli East, Bombay 400066.

Sylvex Cable Co. Pvt. Ltd., Saki-Vihar Rd., Bombay 400072.

Todi Ind. Pvt. Ltd., Todi Estates, Lower Parel, Bombay 400013.

Orissa

Hira Cable Works, P.B. No. 78, Bhubaneswar 751001.

Pondicherry

Trikona Industrials Pvt. Ltd., A-16, Ind. Estate, Thattanchavadi 605009.

Tamil Nadu

Madras Electrical Conductors Pvt. Ltd., 37, Arcot Rd., Madras 600026.

Omega Cables Ltd., 1, Moores Rd., Madras 600006.

Uttar Pradesh

Indian Aluminium Cables Ltd., Ghaziabad 201001.

West Bengal

Aluminium Cables & Conductors (U.P.) Pvt. Ltd., 2-A, Shakespeare Sarani, Calcutta 700016.

Asiatic Wires Ltd., 12, Govt. Place (E), Calcutta 700001.

Bright Wires Ltd., 1/A, Vansittart Row, Calcutta 700001.

Calcutta Wire Works, 6, Tiljala Rd., Calcutta 700046.

Electrical Ind. Corpn., 49/1, Gariahat Rd., Calcutta 700019.

Everlite Insulating Ind. Pvt. Ltd., 137, B. Roy Rd. West, Calcutta 700061.

Express Cables Pvt. Ltd., 51, Stephen House, 4, B.B.D. Bagh, Calcutta 700001.

Fort Gloster Ind. Ltd., 31, Chowringhee Rd., Calcutta 700016.

Hind Wire Industries Ltd., P-16 Kalakar St., Calcutta 700007.

Hind Wirecraft Inds., 156, J. Bajaj St., Calcutta [illegible]

Hindustan Wires Ltd., 3-A, Shakespeare Sarani, Calcutta 700016.

Indian Cable Co. Ltd., 9, Hare St., Calcutta 700001.

Indo-American Electricals Ltd., 21, Old Court House St., Calcutta 700001.

J. K. Steel & Industries Ltd., Rishra 712248. Hooghly Dist.

M. S. Inds., P-10, New Howrah Bridge Approach Rd., Calcutta 700001.

National Insulated Cable Co. of India Ltd., 2, Hare St., Calcutta 700001.

Novelty Engg. Works, B. Lahira Lane, Santragachi, Howrah 711104.

Power Cables & Electricals Ltd., 20A, Camac St., Calcutta 700016.

Power Electric Cables Co., 2, G. C. Avenue, Calcutta 700013.

Universal Cables Ltd., 15, India Exchange Place, Calcutta 700001.

WOOD TREATMENT PLANTS

Ascu Hickson Ltd., 7A, Elgin Rd., Calcutta 700020.

WOOD WORKING MACHINERY & SPARES

Hiralal & Co. (Mfg.), 2, Vithaldas Rd., Devkaran Mansion, Bombay 400002.

Janata Machine Tools Ltd., Majiwada, Thane 400601.

WOOLLEN TEXTILES

Delhi

Premier Woollen Mills, 38, D. L. Ind. Area, Najafgarh Rd., New Delhi 110015.

Gujarat

Dinesh Mills Ltd., P.B. 65, Padra Rd., Vadodara 390001.

Shree Digvijaya Woollen Mills Ltd., Aerodrome Rd., Jamnagar 361001.

Haryana

Raj Woollen Ind., G. Trunk Rd., Panipat 132103.

Shakti Woollen & General Mills, Panipat 132103.

Jammu & Kashmir

Government Spinning Mills, Nowshehra, Srinagar 190001.

Government Woollen Mills, Shirin Baugh, Srinagar 190001.

Karnataka

Binny Ltd., Agraharam Rd., Bangalore 560023.

Maharashtra

Ahmed Woollen Mills, Karim Bldg., 56, Mohamedali Rd., Bombay 400003.

Bombay Woollen Mills Pvt. Ltd., 20, Hamam St., Bombay 400001.

C. Ramon & Co. Pvt. Ltd., 169, Backbay Recl., Bombay 400020.

Castle Mills, Shastri Marg, Thane 400604.

Dani Wooltex Corpn., Ganesh Bhuvan, M. J. Market, Bombay 400002.

Dhruva Woollen Mills Pvt. Ltd., New Sun Mills Comp., Sun Mill Rd., Lower Parel, Bombay 400013.

Gokalchand Rattanchand Woollen Mills Pvt. Ltd., L. B. Shastri Marg, Ghatkopar, Bombay 400086.

Kay Kay Woollen Mills, M. Sunderji Rd., Naupada, Thane 400602.

Kishanchand Spinning Mills, Jolly Bhavan No. 2, New Marine Lines, Bombay 400020.

Modella Woollens Ltd., 4-C, Vulcan Insurance Bldg., V. Nariman Rd., Bombay 400020.

Nagpal Woollen Mills No. 3, Atlas Mills Comp., Reay Rd., Bombay 400010.

Raymond Woollen Mills Ltd., J. K. Bldg., N. Morarjee Marg, Bombay 400038.

Shree Krishna Woollen Mills Pvt. Ltd., Behind Cemetery, Shastri Mrg., Bombay 400078.

Simplex Woollen Mills, Sadhana Rayon House, Dr. D. Naoroji Rd., Bombay 400001.

Wellman (Ind.) Pvt. Ltd., Neville House, Graham Rd., Ballard Estate, Bombay 400038.

Woollen & Textile Ind. Pvt. Ltd., Lake Rd., Bhandup, Bombay 400078.

Punjab

Angora Spinning Mills, Civil Lines, Ludhiana 141001.

Fine Spinners Pvt. Ltd., Kashmir Rd., Amritsar 143001.

G. M. Worsted Spinning Mills, G. Trunk Rd., Chheharta 143105.

Himalaya Woollen Mills, G. Trunk Rd., Chheharta 143105.

International Woollen Mills, 131, Ind. Area 'A', Ludhiana 141003.

Kapur Spinning Mills, G. Trunk Rd., Amritsar 143001.

M. H. Spinners, Kashmir Rd., Amritsar 143001.

Mahavir Woollen Mills, Ind. Area 'A', Ludhiana 141003.

New Egerton Woollen Mills, Dhariwal 143519.

Oswal Spg. & Wvg. Mills Ltd., Oswal Rd., Ind. Area 'A', Ludhiana 141003.

Oswal Woollen Mills Ltd., Miller Ganj, Ludhiana 141003

Padam Das & Co., Ferozepur Rd., Ludhiana 141001.

Prabhat Woollen Mills, 238, Ind. Area 'A', Ludhiana 141003.

Punjab Woollens, G. Trunk Rd., Chheharta 143105.

Supreme Woollen Mills, 424, Ind. Area 'A', Ludhiana 141003.

Swadeshi Manufg. Syndicate Pvt. Ltd., Civil Lines, Syndicate Bldgs., Ludhiana 141003.

Rajasthan

Bikaner Woollen Mills, Ind. Area, Bikaner 334001.

Rajasthan Woollen Mills, Gajner Rd., Bikaner 334001.

Rajasthan Worsted Spg. Mills Ltd., K-18, Durga Das Path, Malviya Marg, C-Scheme, Jaipur 302001.

State Woollen Mills, Bikaner 334001.

Uttar Pradesh

Cawnpore Woollen Mills Ltd., Civil Lines, Kanpur 208001.

General Fibre Dealers Pvt. Ltd., P.B. No. 87, Woollen Mills, Bhadohi 224101.

West Bengal

Bengal National Textile Mills Ltd., 23, Brabourne Rd., Calcutta 700001.

Bharat Woollen Mills Ltd., 11, Esplanade Estate East, Calcutta 700001.

Jayashree Textiles & Ind. Ltd., Rishra 712248, Hooghly Dist.

Kusum Wool & Woollen, 74, Beliaghata Main Rd., Calcutta 700010.

Woolcombers of India Ltd., Duncan House, 31, N. Subhas Rd., Calcutta 700001.

X-RAY MACHINES

(See under Medical Equipment.)

YARN — NYLON & POLYESTER

(See under Nylon & Polyester Filament Yarn in this list.)

ZINC OXIDE

Kamani Metallic Oxides Pvt. Ltd., Lal Bahadur Shastri Marg, Kurla, Bombay 400070.

Pigments & Chemical Products, 17, G. C. Ave., Calcutta 700013.

Waldies Ltd., A-1, Gillander House, N. Subhas Rd., Calcutta 700001.

ZIP FASTENERS

Apollo Chain Zips Pvt. Ltd., D-3 & D-12, Ind. Estate, Moula Ali, Secunderabad 500040.

Apollo Zipper Co. Pvt. Ltd., 20, British Indian St., Calcutta 700001.

Dilip Trading Co., 5, Shamsheth St., Bombay 400002.

Fleet Fasteners Pvt. Ltd., Delstar, Hughes Rd., Bombay 400026.

Madhu Snap Fasteners Manufg. Co. Pvt. Ltd., Udyog Bhavan, A. Besant Rd., Bombay 400025.

Nylo Plast Ind. Pvt. Ltd., 254, Dr. A. Besant Rd., Bombay 400018.

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Amar Agencies, 115, Nagdevi St., Bombay 400003.

Ashok Industrial Traders, 42, Nagdevi St., Bombay 400002.

Associated Agents & Merchants, 85/87, Armenian St., Madras 600001.

Business Centre, 115, Nagdevi St., Bombay 400003.

Chandrakant Shah & Co., 248, Nagdevi St., Bombay 400002.

Chetan Trading Co., 65, Sarang St., Bombay 400003.

East India Abrasives & Tools Co., 67-B, N. Subhas Rd., Calcutta 700001.

Empee Corpn. Pvt. Ltd., 44, Cawasji Patel St., Bombay 400001.

Engg. Equipment Corpn., 44, Nagdevi X Lane, Bombay 400003.

Ghanshamdas & Sons, 78, Nagdevi Cross Lane, Bombay 400003.

Parekh Engg. Corpn., 152, Narayan Dhuru St., Bombay 400003.

Shah & Parekh Traders, 91, Nagdevi Cross Lane, Bombay 400003.

Sri Varu Enterprises, 25, S. J. Park Rd., Bangalore 560002.

Vazirbun Trading, 164A, Broadway, Madras 600001.

ACID RESISTING BRICKS & CEMENTS

A. N. Bhaskar Sons, Ishwar Nagar, New Delhi 110020.

Datson Raviraj & Co. Pvt. Ltd., 43, Tamarind St., Bombay 400023.

S. K. Gupta, Refractory House, L. B. Shastri Marg, Kurla, Bombay 400070.

ACOUSTIC INSULATIONS

Lloyd Insulations (India), 386, V. Savarkar Marg, Bombay 400025.

Newkem Insulations, Hargangamahal, Khodadad Circle, Bombay 400014.

Supersil Acoustic Ind. Pvt. Ltd., 134-A, S. Memon St., Bombay 400002.

ADDRESSING & LISTING MACHINES

National Cash Register Co., Steelcrete House, D. Vachha Rd., Backbay Recl., Bombay 400020.

AIR/GAS COMPRESSORS

International Machine Tools Corpn., 5, Bank St., Bombay 400023.

Nav Bharat Engrs., Savitri Bhavan, Mahul Rd., Chembur, Bombay 400074.

Oriental Enterprises, P-46A, CIT Scheme, XLV, Radhabazar Lane, Calcutta 700001.

AIRCONDITIONERS, REFRIGERATORS, ETC.

Accurate Air-Conditioning Co., 307, Y. Meheralli Rd., Bombay 400003.

Banthiya & Co. Pvt. Ltd., Station Rd., Ajmer 305001.

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Bombay Engg. & Elec. Co., Motia Park, Bhopal 462001.

Bombay Garage (Ahmedabad) Ltd., Shahibaug Rd., Ahmedabad 380004.

Electro Air Conditioning Corpn., Opp. I.A.C. Office, 1754, Mirzapur Rd., Ahmedabad 380001.

Faradays, Lentin Chambers, Dalal St., Bombay 400023.

Frigsales (India) Pvt. Ltd., 204, Commerce House, N. Master Rd., Bombay 400001.

General Equipment Merchants, 2/90, Connaught Circus, New Delhi 110001.

J. N. Marshall & Co., Taj Bldg., 210, Dr. D. Naoroji Rd., Bombay 400001.

Paramount Industrial Stores, 15, Ropewalk St., Bombay 400001.

Pearl Trading Co., A-25, Defence Colony, New Delhi 110024.

Scient-Air, 29, M. Parmanand Mrg., Bombay 40[illegible]

Western Refrigeration Pvt. Ltd., 4, Readymoney Terrace, Dr. A. B. Rd., Bombay 400018.

AIRCONDITIONING & REFRIGERATION EQUIPMENT

Boulton Trading Co., 7, Lentin Chambers, Dalal St., Bombay 400023.

C. Sethia & Co., 59, Forbes St., Bombay 400023.

Durga Refrigeration Co., 6, Bell Lane, Bombay 400001.

Gorakhram Haribux, 4, Apeejay House, 130, Bombay Samachar Marg, Bombay 400023.

Khaitanfrige Pvt. Ltd., 'Everest', 18th Flr., 46-C, J. L. Nehru Rd., Calcutta 700071.

Mahler Sales Corpn., 105, Great Western Bldg., 23, N. Master Rd., Bombay 400023.

S. Khaitan & Co., 18, Rabindra Sarani, Calcutta 700001.

Sah & Sanghi, 11, C.N.S. Patkar Mrg., Bombay 400007.

Universal Commercial Co., 301/A, Commerce House, Medows St., Bombay 400023.

Venus Engineering Service, Land Mark Chambers Ltd., S. B. Mrg., Mahim, Bombay 400016.

ALUMINIUM PRODUCTS

Andhra Pradesh

Aluminium India, 4-3-41, Hill St., Secunderabad 500002.

Delhi

Mahavir Metal Works Pvt. Ltd., 477, Bartan Market, Sadar Bazar, Delhi 110006.

Prem Metal & Hardware Store, 4835, Sadar Bazar, Delhi 110006.

Gujarat

Gujarat Metal Industries, Harkuwer's Haveli Patasa Pole, Ahmedabad 380001.

Karnataka

Bangalore Aluminium Co., No. 2, Journalists' Colony, Bangalore 560002.

P. C. Malpani & Co., 14/1, J. C. Rd., Bangalore 560002.

Maharashtra

Ajit Metal Corpn., Kansara Chawl, Kalbadevi Rd., Bombay 400002.

Alco Metal Corpn., 38, 1st Bhoiwada, Bombay 400002.

Aluminium Extrusion Centre, 60, Kansara Chawl, Kalbadevi Rd., Bombay 400002.

Aluminium Extrusions, 115, Tambakanta, Bombay 400003.

Atul Metal Corpn., 86, Kansara Chawl, Kalbadevi Rd., Bombay 400002.

Bansal Aluminium Co., 415, Prasad Chambers, Swadeshi Mills Compound, Bombay 400004.

Gupta Aluminium Corpn., 21, Lotus Bldg., 59, Mohamedali Rd., Bombay 400003.

Jugraj Tejraj, 151, Bapu Khote St., Bombay 400003.

Kiran Metal Corpn., 207, Kika St., Bombay 400002.

Moolchand Manmal & Co., 162, Kika St., Bombay 400004.

Pankaj Metal Corpn., 55-C, 1st Khattarali Lane, Thakurdwar, Bombay 400002.

Rolex Metal Corpn., 127, Dadyseth Agiary Lane, Bombay 400002.

Sanghi Bros., 52, A. Rehman St., Bombay 400003.

Satpal & Co., 136, Girgaum Rd., Bombay 400004.

Sudarshan Chokani & Co., 26, Jolly Maker Chamber 1, Nariman Point, Bombay 400021.

Swastik Metal Corpn., 7/11, Kolsa St., Bombay 400003.

Tamil Nadu

Allied Import Co., 11/3, Singanna Naicken St., Madras 600001.

Aluminite Pvt. Ltd., 25-A, Casa Major Rd., Madras 600008.

Aluminium Semis & Alloys Co., 6, Venkatarayan Lane, Madras 600003.

Engg. & Commercial Agency, 4, Smith St., Madras 600002.

Globe Ind. Corpn., 171/173, Nanjappa Naicken St., Madras 600003.

India (Aluminium) Trdg. Co., 7, Ekambareswarar Agraharam, Mint St., Madras 600001.

Motichand Sivaraj, 89, Perumal Mudali St., Madras 600001.

Ohm Indl. Corpn., 1-D, Naickemar St., Mambalam West, Madras 600033.

P. C. Malpani & Co., 7, Venkatamaistry St., Madras 600001.

Premier Metal & Engg. Corpn., 69, Perumal Mudali St., Madras 600001.

Rajesh Trading Co., 4, Ramanan St., Madras 600001.

Tamilnad Metals, 221/222, Rasappa Chetty St., Madras 600003.

West Bengal

Aluminium Sales & Trading Co., 23A, N. Subhas Rd., Calcutta 700001.

Bengal Aluminium Stores Pvt. Ltd., 55/14, Canning St., Calcutta 700001.

Durlabhaji Bhurabhai Metalware Pvt. Ltd., 162, Old China Bazar St., Calcutta 700001.

Hindustan Trading Syndicate, 33, Brabourne Rd., Calcutta 700001.

Jugraj Tejraj, 2, Portuguese Church St., Calcutta 700001.

Madhab & Co., 54/1, Canning St., Calcutta 700001.

Rameswarlal Dedraj & Co., 4, Middleton St., Calcutta 700016.

Ratanlal & Bros., 58, N. Subhas Rd., Calcutta 700001.

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Delhi Gun House, Kashmere Gate, Delhi 110006.

Eastern Arms Co., 18-B, A. Ali Rd., New Delhi 110002.

Garg Armoury Pvt. Ltd., 1526, K. Darwaza, Delhi 110006.

Manton & Co., Ltd., 13, Old Court House St., Calcutta 700001.

Narendra & Co., Hanuman Chowk, Dehra Dun 248001.

National Rifles Ltd., Village Vinzol, Nr. Vatva Rly. Stn., Taluka Dascroi, Ahmedabad Dist. 382440.

National Stores, 13B, Connaught Place, New Delhi 110001.

Oriental Arms & Ammunition Co., Opp. Fire Brigade, Connaught Circus, New Delhi 110001.

R. B. Rodda & Co. Ltd., 4K, Connaught Circus, New Delhi 110001.

Singh Bros. (1925) Regd., Kashmere Gate, Delhi 110006.

Singh Gun House, 14/3, A. Ali Rd., New Delhi 110002.

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Bombay Stationery Mart, 7-A, Sir. P. Mehta Rd., Bombay 400001.

M. Baker & Co., 35, Nagdevi St., Bombay 400003.

ASBESTOS & ASBESTOS PRODUCTS

Asbestos (India), 189, Nagdevi St., Bombay 400003.

Asbestos Textiles & Packings, 45, Nagdevi X Lane, Bombay 400003.

Babulal & Bros., 26, Nagdevi X Lane, Bombay 400002.

Bharat Asbestos & Rubber Co., 137, N. Dhuru St., Bombay 400003.

Bombay Machine Store Co., 43, Nagdevi X Lane, Bombay 400003.

Central Engg. Co., 125, Nagdevi St., Bombay 400003.

Devva Traders, 10, Ganesh Baug, 187, Dadyseth Agiary Lane, Bombay 400002.

Excelite Insulations Pvt. Ltd., Neelam, 108, Worli Seaface Rd., Bombay 400018.

F. Pestonji & Co., 94, Nagdevi St., Bombay 400003.

J. K. Marker & Sons, 115, Nagdevi St., Bombay 400003

J. Khushaldas & Co., 78/83, Nagdevi St., Bombay 400003.

R. Mohanlal & Co., 38, Bibijan St., Bombay 400003.

R. Ochavlal & Co., 86, Nagdevi St., Bombay 400003.

Raj Tools Corpn., 50, Bibijan St., Bombay 400003.

Rangoon Mill Stores, 1/157, Broadway, Madras 600001.

Real Hardware Mart, 295, Nagdevi St., Bombay 400003.

Union Asbestos & Allied Products, 40, Strand Rd., Calcutta 700001.

Supreme Mill Stores, 36, Bhajipala Lane, Bombay 400003.

Velhari Trdg. Co. Pvt. Ltd., Sangli Bank Bldg., Peri Nariman St., Bombay 400001.

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Prabhat Automobiles, 15-9-622, J. Nehru Rd., Hyderabad 500012.

Patny & Co. Pvt. Ltd., 87, Sarojini Devi Rd., Secunderabad 500003.

Secunderabad Commercial Co., 8570-A, Rashtrapati Rd., Secunderabad 500003.

Assam

Jesraj Jiwanram Pvt. Ltd., Assam Trunk Rd., Jorhat 785001.

Jyoti Motors, Jorhat 785002.

National Motors, Commercial Bldg., Assam Trunk Rd., Gauhati 781001.

Bihar

Auto Distributors Ltd., Exhibition Rd., Patna 800001.

Kamal & Co., Upper Bazar, Ranchi 834001.

Sungha Motors, Haji Gunj, Patna 800001.

Delhi

Aggarwal Motor Co., Gandhi Motor Market, K. Gate, Delhi 110006.

Ajanta Automobiles, K. Gate, Delhi 110006.

Allied Motors Pvt. Ltd., Scindia House, New Delhi 110001.

Anand Motors, 78, Tolstoy Lane, New Delhi 110001.

Asian Motors India, Minerva Bldg., K. Gate, Delhi 110006.

Asu Traders Pvt. Ltd., Minerva Bldg., K. Gate, Delhi 110006.

Atlantic Auto Dealers Pvt. Ltd., 3-E/7, Jhandewalan Extn., Dr. Ambedkar Mrg., New Delhi 110055.

Auto Lines (India), Peareylal Motor Mkt., Kashmere Gate. Delhi 110006.

British Motor Car Co. (1934) Ltd., Connaught Circus, New Delhi 110001.

Byford Ltd., M-5, NDSE-II, New Delhi 110049.

Central Automobiles, 2638-Zorawar Singh Mrg., Kashmere Gate, Delhi 110006.

Conwest Pvt. Ltd., K. Gate, Delhi 110006.

Delhi Automobile Pvt. Ltd., 3/15-A, Asaf Ali Rd., New Delhi 110002.

Gupta Trading Corpn. India Pvt. Ltd., 2705, Lothian Rd., K. Gate, Delhi 110006.

Howrah Motors Co. Pvt. Ltd., K. Darwaza, Delhi 110006.

J. J. Motor Corpn., 2/E-9, Jhandewala Extn., New Delhi 110055.

Jullundur Motor Agency (Delhi) Pvt. Ltd., K. Gate, Delhi 110006.

Kamal & Co. (Jaipur) Pvt. Ltd., 48/9, E. Patel Nagar, New Delhi 110006.

Khera Automobiles, Roshanara Rd., Delhi 110007.

P. Sharan & Co., K. Darwaza, Delhi 110006.

Pioneer Automobile Co., K. Gate, Delhi 110006.

Prem Nath Motors Pvt. Ltd., Scindia House, New Delhi 110001.

Rajiv Motors Pvt. Ltd., 11/90, Connaught Circus, New Delhi 110001.

Star Auto Industries, 336/4, Punja Sharif, Kashmere Gate, Delhi 110006.

Supreme Motors Pvt. Ltd., 13/3 Asaf Ali Rd., New Delhi 110002.

Triveni Automobiles, 2785, Kashmere Gate, Delhi 110006.

Universal Auto Traders, Kashmere Gate, Delhi 110006.

Karnataka

Addison & Co. Ltd., St. Marks Rd., Bangalore 560001.

Associated Agencies, 58, Kengal Hanumanthaiah Rd., Bangalore 560027.

Associated Auto Parts Pvt. Ltd., Fort Rd., Belgaum 590001.

Bharat Agencies, 18-A, Sri Jayachamarajendra Rd., Bangalore 560002.

Bharat Automobiles, 1/4, Narasimharaja Rd., Bangalore 560003.

George Oakes Ltd., Sri Narasimharaja Square, Bangalore 560002.

Hindustan Automobiles, Milagres Centre, Hampankatta, Mangalore 575001.

Industrial Engg. & Trdg. Co. (M) Pvt. Ltd., 11, A.M. Rd., Journalist Colony, Bangalore 560002.

Karnatak Automobiles, Reddy Janasangha Bldgs., J. C. Rd., Bangalore 560002.

Khivraj Motors, 135/1, Residency Rd., Bangalore 560025.

Modern Auto Parts, 22/1, Sri Narasimharaja Rd. Cross, Bangalore 560002.

Motor Inds. Co. Ltd., P.B. No. 3000, Bangalore 560030.

Popular Automobiles, 69, S. J. Park Rd., Bangalore 560002.

Punjab Automobiles, Traffic Island, Hubli 580021.

Sundaram Motors, 2-2A, Kasturba Rd., Bangalore 560001.

Supreme Automobiles, 73/16, Reddy Janasangha Bldg., J. C. Rd., Bangalore 560002.

United Automobiles, Nehru Rd., Shimoga 577201.

Universal Automobiles, Traffic Island, P. B. Rd., Hubli 580021.

Kerala

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Popular Automobiles, Court Rd., Calicut 673001.

Madhya Pradesh

Dawar Bros., Hamidia Rd., Bhopal 462001.

Globe Automobiles, Hamidia Rd., Bhopal 462001.

Jain Co., Hamidia Rd., Bhopal 462001.

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Allena (India) Agencies, 363-D, S. V. Patel Rd., Bombay 400004.

Asian Motor Car Co., 481, S. V. Patel Rd., Bombay 400004.

Associated Auto Parts Pvt. Ltd., 445, Dr. Bhadkamkar Marg, Bombay 400004.

Batavia Auto Parts, 30/4, D. D. Sathye Mrg., Bombay 400004.

Bhagwan Motor Co., 69, J. Shankar Sheth Rd., Bombay 400004.

Bharat Automobiles, 404, V. P. Rd., Congress House, Bombay 400004.

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Central Automobiles Pvt. Ltd., 466, S. V. Patel Rd., Bombay 400004.

Chandulal Mehta & Co. Pvt. Ltd., 9, N. Queen's Rd., Bombay 400004.

Conwest Pvt. Ltd., 448, Lamington Rd., Bombay 400004.

Dadajee Dhackjee & Co. Pvt. Ltd., Shree Pant Bhuvan, Mamasaheb Vanerbai Bridge, Bombay 400007.

Diamond Motors (India), 77-A, Girgaum Rd., Bombay 400004.

George Oakes Ltd., Swadeshi Mills Estate, Mama Paramanand Marg, Bombay 400004.

International Impex Corpn., 16, Kiln Lane, Bombay 400007.

J. C. Vora & Co., Saraswati Sadan, Benham Hall Cross Lane, Bombay 400004.

Pioneer Auto Spares, Nanik Niwas, Benham Hall Lane, Bombay 400004.

Popular Motor Car Co., 3, Mathew Rd., Bombay 400004.

Raj Kumar Khanna & Son, 11, Parekh Mkt., Kennedy Bridge, Bombay 400004.

Sah & Sanghi, Giri Kunj, 11-C, N. S. Patkar Mrg., Bombay 400007.

Sethi Auto Spares, 428, Raval Bldg., No. 1, Lamington Rd., Bombay 400007.

Vora Bros., Fateh Manzil, Nr. Opera House, Bombay 400004.

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Allied Trading Corpn., Nehru Garden Rd., Jullundur City 144001.

British Motor Car Co. Pvt. Ltd., G. T. Rd., Jullundur City 144001.

Jullundur Motor Agency, Nehru Garden Rd., Jullundur City 144001.

Narankari Auto Agency, Outside Gandhi Gate, Amritsar 143001.

National Corpn. Pvt. Ltd., Nehru Garden Rd., Jullundur 144001.

Ved & Co., (Ludhiana), Cinema Rd., Ludhiana 141001.

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Anand Automobiles, 24, Gen. Patters Rd., Mount Rd., Madras 600002.

Auto Sales Co., 42, Gen. Patters Rd., Madras 600002.

Bharat Motors, 35, Mount Rd., Madras 600002.

Bharat Tractor Agencies, No. 59-B, Dr. Nanjappa Rd., Coimbatore 641018.

Bombay Motor House, 28, Gen. Patters Rd., Madras 600002.

Central Motors, 9, Gen. Patters Rd., Madras 600002.

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George Oakes Ltd., 32-A, Greaves Rd., Madras 600006.

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Aggarwal Bros., The Mall, Kanpur 208001.

Byramjee Framjee & Co., The Mall, Kanpur 208001.

Jullundur Motor Agency (Delhi) Ltd., 63/3, The Mall, Kanpur 208004.

Kanpur Auto Centre, The Mall, Kanpur 208001.

M. Narain & Co., 62, N. Subash Marg, Allahabad 211

United Motors, 3, Vidhan Sabha Mrg., Lucknow

West Bengal

Auto India International, 4, Sooterkin St., Calcutta

Auto Parts Co., 11/1, Sooterkin St., Calcutta

Bengal Auto Distributors, 25-B, Park St., Calcutta

Bharat Motors, 6, Mangoe Lane, Calcutta 700001.

East India Automobiles, P-24, Mission Row Ext., 700072.

Howrah Motor Accessories Agency Pvt. Ltd., 128, Rd., Calcutta 700026.

Howrah Motor Co. Ltd., 16, R. N. Mookherjee cutta 700069.

India Motor Parts & Accessories Ltd., 13, C Calcutta 700017.

Makin Bros., 5, A. Mukherjee Rd., Calcutta 700020.

Metal Specialities Pvt. Ltd., 6/1, Saklat Place, 700013.

National Automobiles, 20, British India St., 700069.

Oriental Motor Accessories Agency Pvt. Ltd., 28, Chittaranjan Ave., Calcutta 700072.

S. P. Singh & Co., 62, G. Chandra Ave., Calcutta

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Capital Machinery Co., 75, Shradhanand Mrg., 110006.

Central Bearing Corpn., 2423, Shradhanand Mrg., 110006.

Madan Lal & Co., 5336, Sadar Thana Rd., Delhi

Satish Bearing House, 641, Shradhanand Marg, G.B. Rd., Delhi 110006.

Talwar Bearing Co., 1/633, Zorawar Singh Mrg., 100006.

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Kamal Engineering Co., 21, Vijay Plot, Gondal Rajkot 360002.

Packwell Corpn., Sheth C. G. Bungalow, Lal Ahmedabad 380001.

Sharad Bros. & Co., Parasram Chambers, Ahmedabad 380002.

Karnataka

Auto Bearing Co., D-28, 6th Main Rd., Gandhi Bangalore 560009.

Belt-O-Bearings, 24, S. J. Park Rd., Bangalore

Milak & Co., 73, J. C. Rd., Bangalore 560002.

Rollman Trading Co., 73/26, J. C. Rd., Bangalore

Kerala

United Bearing Co., Pulikkal Bldg., M. G. Rd., Cochin 682011.

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Advance Bearing Corpn., 101, Nagdevi X Lane, 400003.

Amco Bearing Corpn., 139A, Abdul Rehman St., Bombay 400003.

Anil Bearing Stores, 163, Narayan Dhuru St., Bombay 400003.

Associated Trade Impex, 25, Bibijan St., Bombay 400003.

Ball Bearing & Machinery Corpn., 172-174, Nagdevi St., Bombay 400003.

Ball & Roller Bearing Co., G.P.O. Box No. 1104, Bombay 400001.

Bhagirath Trading Co., 107, Abdul Rehman St., Bombay 400003.

Bharat Trading Co., 69, Nagdevi X Lane, Bombay 400003.

Chunilal Prabhudas & Co. (Bombay) Pvt. Ltd., 55/57, Nagdevi X Lane, Bombay 400003.

Commercial Trading Corpn., 39, Sarang St., Bombay 400003.

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Desai Brothers, 391, V. P. Rd., Badamwadi, Bombay 400004.

Dhirajlal & Co., 15, New Queen's Rd., Bombay 400004.

Dhiren Engg. Stores, 51-53, Nagdevi X Lane, Bombay 400003.

Doshi Bros., 11, Narayan Dhuru X Lane, Bombay 400003.

Enaco Bearing Corpn., 25, Bibijan St., Bombay 400003.

Eastern Engg. Co., 278, Dr. D. N. Rd., Bombay 400001.

Everest Bearing Corpn., 91, Nagdevi X Lane, Bombay 400003.

Hemani Bros., 30, Princess St., Bombay 400002.

K. K. Poonja & Sons, 19/21, Dalal St., Bombay 400023.

Machine Tools & Implements, 93/95, N. Dhuru St., Bombay 400003.

Mahavir Trading Corpn., 137A, Nagdevi St., Bombay 400003.

Masrani Mill Gin Stores, 46, Nagdevi Cross Lane, Bombay 400003.

NKS Bearing Co., 145, N. Dhuru St., Bombay 400003.

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Rajnikant & Co., 19, Bibijan St., Bombay 400003.

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S. Mohanlal & Co., Tawawala Bldg., 34, Pathakwadi, Bombay 400002.

Sanghavi Bearing Corpn., 155, N. Dhuru St., Bombay 400003.

Shagun Traders, 77/83, Nagdevi St., Bombay 400003.

Shah Bros., 524, V. Patel Rd., Bombay 400004.

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Gupta Ball Bearing Agencies, Opp. Jagraon Bridge, G. T. Rd., Ludhiana 141003.

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Radiant Bearing Co., 62, Thambu Chetty St., Madras 600001.

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Associated Bearing Enterprises, 27/2D, Strand Rd., Calcutta 700001.

Atlas Bearing Corpn., 5/1, Clive Row, Calcutta 700001.

Ball Bearing & Engg. Co., 52, Netaji Subhas Rd., Calcutta 700001.

Bearing Supply & Engg. Co, 138, BRBB Rd., Calcutta 700001.

Bearing Supply Syndicate, 71A, Netaji Subhas Rd., Calcutta 700001.

Indian Ball Bearing Stores, 34, Strand Rd., Calcutta 700001.

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Sanjay Enterprises, 33, BRBB Rd., Calcutta 700001.

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Chetan Trading Co., 65, Sarang St., Bombay 400003.

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T. Brothers Jawadwalla, 189, Mutton St., Bombay 400003.

Tushar Enterprises, 116, Nagdevi St., Bombay 400003.

Vikram & Co., 135, Kazi Syed St., Bombay 400003.

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Free India Metal Products Co., 48, Sarang St., Bombay 400003.

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P. Chatarji & Co. Pvt. Ltd., 53, Ezra St., Calcutta 700001.

Pan Electricals, 50, Veer Nariman Rd., Bombay 400023.

R. G. Trading Co., 1/8, Govindappa Naicken St., Madras 600001.

Rajen Electric Co., 95/207, Dadasaheb Phalke Rd., Bombay 400014.

Rajni Electric Corpn., 272, Yusuf Meherali Rd., Bombay 400003.

Raval & Co., Shreeji Bhuvan, Lohar Chawl, Bombay 400002.

Ravin Trading Co., 5, Mohatta Mkt., Palton Rd., Bombay 400001.

S. K. & Co., Gopal Niwas, 133, Princess St., Bombay 400002.

Sarita Electrical Accessories, 39, Ismail Bldg., 16, Pathak Wadi, Lohar Chawl, Bombay 400002.

Shah Commercial Corpn., 58, Mangal Das Rd., Lohar Chawl, Bombay 400002.

Shah Electric Co., Shah Bhuvan, 71-73, Dhirubhai Parekh Mrg., Bombay 400002.

Sopher & Co., 11, Bank St., Bombay 400023.

Super Electrical Insulating Co., 289-91, Nagdevi St., Bombay 400003.

Suresh Industries (Pvt.) Ltd., Atlas Mills Compound, Reay Rd., Bombay 400010.

Toshniwal Bros. Pvt. Ltd., 198, Jamshedji Tata Rd., Bombay 400020.

Universal Electric Co., 73/75, Lohar Chawl, Bombay 400002.

Venus Electrical Trading Co., 30, Jay Mahal Estate, 20/48, Lohar Chawl, Bombay 400002.

Zenith Electric Stores, 51, Lohar Chawl, Bombay 400002.

ELECTRONIC COMPONENTS

Bihar

R. K. Trading Co., S. P. Verma Rd., Patna 800001.

Delhi

Advance Electronics, Jogdhian Colony, Chandni Chowk, Delhi 110006.

Comel, 4850, Ansari Rd., 24, Daryaganj, New Delhi 110002.

Envoys (India) Pvt. Ltd., B-24, Defence Colony, New Delhi 110024.

M. C. Engineering Co., 37, Okhla Ind. Estate, New Delhi 110020.

Parco, 16/B, Connaught Place, New Delhi 110001.

Karnataka

Associated Electronic & Electrical Ind., 1, Church St., Bangalore 560001.

Maharashtra

Aarjay & Co., 381, Dr. Bhadkamkar Mrg., Bombay 400007.

Asian Electric Services, 84, Imamwada Rd., Bombay 400009.

Associated Trdg. Corpn., Western India House, Mehta Rd., Bombay 400001.

Brisk Sales Corpn., 5, Homi Mody St., Bombay

Bombay Electronics Co. Pvt. Ltd., 381, Dr. D. Rd., Bombay 400001.

Cycl-O-Incorporated, 54, Annapurna Ind. Estate, Tilak Rd., Ghatkopar (East), Bombay 400077.

Dominion Radios, 15, New Queen's Rd., Opera Bombay 400004.

Electronic Radio & Sound Corpn., 394-B, Lamington Bombay 400004.

Hindustan Instruments, 7/9, Bell Lane, Bombay

Industrial Electronic Equipment Corpn., 19, Bombay 400001.

KDK Electronics, Peerbhoy Bldg. No. 2, Pathak Bombay 400002.

MCE Products Sales Service Pvt. Ltd., 12. Sukh Hughes Rd., Bombay 400007.

Navbharat Radio Agencies, 350, Lamington Rd., 400007.

Toshniwal Bros. Pvt. Ltd., 198, Jamshedji Tata Bombay 400020.

Tamil Nadu

Electronic Agencies, 2/7, Wallers Rd., Mount Rd., 600002.

Piezo Electronics, 2/7, Wallers Rd., Mount Rd., 600002.

Sakhi Electronics, 4, Ritchie St., Mount Rd., 600002.

Singh Trading Co., 9, Blacker's St., Mount Rd., 600002.

Textonic Instruments, 393, Mint St., Madras 600001.

Umatson, 14, Angappa Naicken St., Madras 600001.

Uttar Pradesh

Electronics & Computers (I) Ltd., P. B. 56, 201001.

West Bengal

Parikh Electric Corpn., 36, Ezra St., Calcutta 700001.

Zenith Ind. Equipments, 14/1/1A, Jackson Lane, 700001.

ELECTROPLATING MATERIALS

Delhi

Nath Trading Co., 5234, H. Singh Chowk, Delhi

Maharashtra

Ara Pvt. Ltd., 41, Hamam St., Bombay 400001.

Bharat Trading Co., 30, Sardar Patel Rd., Bombay

M. Bhatt & Co., 65A, Ardeshir Dady St., Bombay

Master & Co., 278, S. V. Patel Rd., Bombay 400004.

Mathuradas Bros. & Co., 76, Thakurdwar Rd., 400002.

S. Mitra & Co., Convent St., Bombay 400001.

Tamil Nadu

S. Mitra & Co., 26, Venkatachala Mudali St., 600003.

West Bengal

B. C. Maity & Co., 94, Prem Chand Boral St., 700012.

Hanuman Trading Co., 70, Cotton St., Calcutta

Reliable Trading Agency, 67-B, N. Subhas Rd., 700001.

S. Mitra & Co., 30, Bentinck St., Calcutta 700001.

ENAMELS & LACQUERS

See Synthetic Enamels and Lacquers)

ENGINEERING TOOLS

A. H. Bros. & Co., 26, Sarang St., Bombay 400003.
Bharat Engg. Stores, 44, Nagdevi Cross Lane, Bombay 400003.
Bombay Hardware Traders, 79, N. Dhuru St., Bombay 400003.
Bombay Tools & Hardware Mart, 123, Narayan Dhuru St., Bombay 400003.
Bombay Tools Supplying Agency, 50, Nagdevi Cross Lane, Bombay 400003.
Central Tool & Equipment Co., 32, Sarang St., Bombay 400003.
Diwan Traders, 167, S. G. Barve Mrg., Kalina, Bombay 400029.
Engineering Tools & Hardware Mart, 31, Lohar Chawl, Bombay 400002.
Gulamally & Bros., 90, Lohar Chawl, Bombay 400002.
Hemant Tools Trading Co., 33, Bibijan St., Bombay 400003.
Hindustan Tools & Hardware Mart, 126, Lohar Chawl, Bombay 400002.
Hiralal Gokuldas Dalal & Co., 45, Nagdevi St., Bombay 400003.
Jayantilal Bhagwandas & Co., 96, Nagdevi X Lane, Bombay 400003.
Kaiser Corpn., 135, Rashbehari Basu Rd., Calcutta 700001.
Nagdevi Tool-Steel Mart, 186, Nagdevi St., Bombay 400003.
Raj Tools Corpn., 50, Bibijan St., Bombay 400003.
Satellite Commercial Co., 153, Janjikar St., Bombay 400003.
Super Tools & Bearing Stores, 126/128, Nagdevi St., Bombay 400003.
Tools Supplying Agency, 12, Mahalaxmi Nivas, S. V. Rd., Bombay 400067.
Tyebally Dawoodjee, 87, Sarang St., Bombay 400003.
Venus Tools Agencies, 126, Nagdevi St., Bombay 400003.

ENGRAVERS & DIE SINKERS

Advance Electronics, 10, Pawar Ind. Estate, Edalji Rd., Charai, Thane 400601.
Calcutta Engraving Co., 6A, Malanga Le., Calcutta 700012.
Kshirod Mohan Mullick & Sons, 48, M. Gandhi Rd., Calcutta 700009.
Mankame Bros., 465, Kalbadevi Rd., Bombay 400002.
Masani & Co., Ararat, 89C, Medows St., Bombay 400023.
Model Engravers, 207, Bajson Ind. Estate, Chakala Rd., Andheri, Bombay 400093.
Technical Instruments Mfrs. Pvt. Ltd., Shanti Nagar, Vakola Bridge, Santa Cruz (E), Bombay 400055.

ESSENTIAL OILS

Calcutta Essence Supply Co., Mulchand Mansion, Shamaldas Gandhi Marg, Bombay 400002.
Goldensun Mfg. Co., Mulchand Mansion, Shamaldas Gandhi Mrg., Bombay 400002.
International Export Import Co., 65, Mody St., Bombay 400001.
M. C. Davar & Co., Sai Bhuvan, Princess St., Bombay 400002.
N. R. Shah & Co, Mulchand Mansion, Shamaldas Gandhi Mrg., Bombay 400002.

EXPORT FIRMS

Andhra Pradesh

Andhra Pradesh State Export-Import Corpn. Ltd., Sahakar Bhawan, B-I/174, Fateh Maidan Rd., Hyderabad 500004.

Delhi

Bharat Vanidhya Pvt. Ltd., 101, Surya Kiran, 19, K. Gandhi Marg, New Delhi 110001.
CNA Exports Pvt. Ltd., A-16, Naraina Indl. Area, Phase I, New Delhi 110028.
Dayal Export House, 16/1022, Arya Samaj Rd., New Delhi 110005.
Exports (India), Paras Cinema Bldg., Nehru Place, New Delhi 110024.
Handloom Export Products of India, S-21, Green Park Extn., New Delhi 110016.
Hansa (Export) Pvt. Ltd., 4B/3, Ganga Ram Hospital Mrg., New Delhi 110060.
Indo Java & Co., 811, Ansal Bhawan, 16, K. Gandhi Mrg., New Delhi 110001.
Kiran International, M-97, Conn. Place, New Delhi 110001.
P.C.I. Products of India, 198, Kirti Nagar, New Delhi 110015.
R. D. Ramnath Co., Jama Masjid, Delhi 110006.
Reliance International Corpn. Pvt. Ltd., 4/2B, A. Ali Rd., New Delhi 110002.
Stalwarts Exports Pvt. Ltd., 12-E, Vandhana, 11, Tolstoy Mrg., New Delhi 110001.
Texcraft Exports, B-65, Narain Ind. Area, Phase 2, New Delhi 110028.
Trade India, F/I, Jangpura Ext., New Delhi 110014.

Gujarat

Atul Products Ltd., Atul 396020. Bulsar Dist.

Haryana

Ameteep Machine Tools Pvt. Ltd., 14/7, Mathura Rd., Faridabad 121001.
Panipat Foods Ltd., Grand Trunk Rd., Panipat 132103.

Maharashtra

Airauto Engg. Co., 38-Gala Ind. Estate, Mulund, Bombay 400080.
Ashoka International Factors, 408, Loha Bhawan, P. D'Mello Rd., Bombay 400009.
Atlas Exports, 212/216, Sheriff Devji St., Bombay 400003.
Chemet, Taj Bldg., 210, Dr. D. Naoroji Rd., Bombay 400001.
D. K. Exports, 61, Mohamedali Rd., Bombay 400003.
Deepak Perfumery Works, Govardhan Nivas, M. K. Jhaveri Rd., Bombay 400004.
Dr. Beck & Co. (India) Ltd., Bombay-Pune Rd., Pimpri, Pune 411018.
Ellora Art Ind., 51, Mangaldas Rd., Bombay 400002.
G. K. Export Corpn., 5/7, Syed Mukri St., Katha Bazar, Bombay 400009.
Hiralal Maganlal & Co. (Exports), Mahavir Darshan, Bhandari St., Bombay 400003.
Indmag Pvt. Ltd., Udyog Bhavan, Walchand Hirachand Mrg., Bombay 400038.
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Jayant Inds., 33, Naik Niwas, 39, Benham Hall
Bombay 400004.

Jayem Exports Pvt. Ltd., G.P.O. Box 420,
400001.

Jolly Exports Pvt. Ltd., 501, Rewa Chambers, 31,
Marine Lines, Bombay 400020.

Jyoti-Impex Pvt. Ltd., 107, Embassy Centre,
Point, Bombay 400021.

Kamlakant Chotalal & Co., 106, Bhandari St.,
400003.

Khemka Exports Pvt. Ltd., Vulcan Insce. Bldg.,
gate Rd., Bombay 400020.

Kotak & Co., Navsari Bldg., 240, Dr D. Naoroji
Bombay 400001.

Liberty Exports Pvt. Ltd., 94, Nagdevi St.,
400003.

MD Enterprises (Bombay), P.B. No. 8026, 29,
Bldg., 1st Flr., Vallabhbhai Rd., Vile Parle
Bombay 400056.

M. H. Mehta & Co., 39, Subhas Rd., Bombay

Malhotra International Ltd., India House, 5th Flr.,
G. P. O., Bombay 400001.

Mehta Bros., 299, Abdul Rehman St., Bombay

Metro Exporters Pvt. Ltd., Shah House, Shiv
Estate, Dr. A. Besant Rd., Bombay 400018.

Natraj Exporto (India), Venkatesh Chambers,
Rd. 1, Bombay 400001.

Neela Exports Pvt. Ltd., Devchhaya Bldg., Near
Ali Corner, Tardeo, Bombay 400034.

New India Exports Pvt. Ltd., New India Centre,
Cooperage Rd., Bombay 400039.

Numex Engrs., 306, Commerce House, N.
Bombay 400001.

Pankaj Mercantile Co., 51/55, Kambekar St., Bomb
400003.

Parry (Eastern) Pvt. Ltd., Dhiraj Chambers,
Bombay 400001.

Patel Exports, Fernley House, 60, Perry Rd., Band
Bombay 400050.

Rajmal Paharchand, Jolly Bhavan No. 2, 7, New Mar
Lines, Bombay 400020.

Ralliwolf Ltd., L. B. Shastri Marg, Mulund,
400080.

Ram Exports, 403, Neelakanth, 98, Marine Drive,
400002.

Raunaq International Ltd., Hoechst House,
Nariman Point, Bombay 400021.

S. Mansukhlal & Co., 395, Kalbadevi Rd., Bombay

Safari Exports, 114/116, Bhajipala Lane, Bombay

Sajdeh Sales Corpn., National House, 6,
Bombay 400039.

Salvi Super Structure, 20, A. Doshi Mrg., Bombay

Sepulchre Bros. (India) Ltd., Taj Bldg., 210,
Naoroji Rd., Bombay 400001.

Shyams International, 23, Arun Chambers,
Bombay 400034.

Simac Group India Pvt. Ltd., 4, Gaiwadi Indl.
Goregaon (West), Bombay 400062.

Sorabji Nowroji & Co., 16, Horniman Circle,
400023.

Sterling Exports Pvt. Ltd., 311, Venkatesh
Prescott Rd., Bombay 400001.

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Tarsema Textile Traders, 11, Noble Chambers, S. A. Brelvi Rd., Bombay 400001.

Tata Exports Ltd., Block 'E', Shivsagar Estate, Dr. A. Besant Rd., Worli, Bombay 400018.

Voltas Ltd., 19, Graham Rd., Ballard Estate, Bombay 400038.

Orissa

Kalinga Exporters Ltd., 38-Udyog Bhawan, Bhubaneswar 751009.

Orissa Ind. Ltd., Katcheri Rd., Rourkela 769001.

Tamil Nadu

Art Work Exports Ltd., 54-C, Sydenhams Rd., Madras 600003.

Chillies Export House Ltd., 35, M. C. Chidambara Nadar St., Virudhunagar 626001.

Eimco K. C. P. Ltd., 38, Mount Rd., Madras 600006.

Elite Optical Ind., 31, Mount Rd., Guindy, Madras 600032.

Indian Ind. Export House Ltd., 31, Mount Rd., Madras 600002.

Intercraft South (Exports) Pvt. Ltd., 39, Thambu Chetty St., Madras 600001.

Prashanth Overseas Supplies House Pvt. Ltd., 1/6, Harrington Ave., Madras 600031.

Sri Krishna & Sons, 15, Cathedral Road, Madras 600086.

Uttar Pradesh

Harnarain Purshottamdas Trdg. Co., 226, N-Block, Kidwai Nagar, Kanpur 208011.

West Bengal

Achhruram Kalkhof & Co. (Shellac) P. Ltd., 25, Stephen House, Calcutta 700001.

Basant Udyog, 27, Brabourne Rd., Calcutta 700001.

Bunge & Co. Ltd., 6, Church Lane, Calcutta 700001.

India Tobacco Co. Ltd., Virginia House, 37, Chowringhee, Calcutta 700016.

J. Stone & Co. (I) Pvt Ltd., 16, Taratolla Rd., Calcutta 700027.

Kajaria Exports Pvt. Ltd., 48, B.R.B.B. Rd., Calcutta 700001.

Nipha Exports Pvt. Ltd., 25, N. Subhas Rd., Calcutta 700001.

R. B. Agarwalla & Co., 4A, Jackson Lane, Calcutta 700001.

R S I India Pvt. Ltd., 56-D, Mirza Ghalib St., Calcutta 700016.

FARM EQUIPMENT

Asian Steel Co., Durgadas Bldg., Ardeshir Dady X Lane, Bombay 400004.

Cirugia De Lux Ltd., 24, J. Nehru Rd., Calcutta 700013.

FILTERS

Blackstone Supply Agency, 23-A, Netaji Subhas Rd., Calcutta 700001.

G. B. Dey & Co., 36, Strand Rd., Calcutta 700001.

S. M. Dey & Co., 51/3D, Strand Rd., Calcutta 700001.

FIRE FIGHTING EQUIPMENT

(See under Manufacturers list).

FOUNDRY MATERIALS

Blackstone Supply Agency, 23-A, N. Subhas Rd., Calcutta 700001.

Coimbatore Steels, 49, Avanashi Rd., Coimbatore 641037.

Hatim & Co., 90, Ripon St., Calcutta 700016.

Indian Vegetable Products Ltd., (*Foundry Products Divn.*), 6A, Middleton St., Calcutta 700016.

J. D. Jones & Co., C5, Gillander House, Calcutta 700001.

K. K. Bose & Co., 27/1B, Simla Rd., Calcutta 700006.

Monilal & Co., 34, Strand Rd., Calcutta 700001.

Precision Metalwork Co., 6/1, Clive Row, Calcutta 700001.

GARAGE EQUIPMENT & TOOLS

Garage Equipment & Tools Co., Kala Bhavan, Mathew Rd., Bombay 400004.

H. D. Traders, 22-A, Perianna Maistry St., Madras 600001.

Hemant Tools Trading Co., 33, Bibijan St., Bombay 400003.

M. K. Enterprises, 8571, Rashtrapati Rd., Secunderabad 500003.

Raj Tools Corpn., 50, Bibijan St., Bombay 400003.

Sawant Engg. Tools Co., 49, Nagdevi X Lane, Bombay 400003.

Southern Mercantile Corpn., 7/3, Patullos Rd., Madras 600002.

GARDEN REQUISITES

Dattatraya Industries Pvt. Ltd., 691/A, Pune-Satara Rd., Pune 411009.

Palekar & Co., Sitaram Bldg., Nr. Crawford Mkt., Bombay 400001.

GLASS & MIRRORS

Abdulhusein Karimji Arsiwala, 136, A. Rehman St., Bombay 400003.

General Glass Co. Pvt. Ltd., Gandhi Mansion, S. K. Barodawala Mrg., 400026.

M. A. Kachwalla & Sons, 97-99, Dhanji St., Bombay 400003.

National Glass Bottle Co., Ararat, Medows St., Bombay 400023.

HANDICRAFTS EXPORTERS

Delhi

Asian Antiques Arts & Handicrafts, N-258, Greater Kailash-1, New Delhi 110048.

Beharilal Benipershad Exports & Imports Pvt. Ltd., Mahalaxmi Market, Chandni Chowk, Delhi 110006.

Central Traders, 51/3, New Market, New Rohtak Rd., New Delhi 110005.

Continental Exports, 18/4, A. Ali Rd., New Delhi 110002.

Dhananjai Pvt. Ltd., 16/12, Faiz Rd., New Delhi 110005.

Eastern Arts Corpn., 11/B-4, A. Ali Rd., New Delhi 110002.

Eastern Linkers Pvt. Ltd., Block A, Connaught Place, New Delhi 110001.

Export India Corpn., B1/30A, Hauz Khas, Main Mehrauli Rd., New Delhi 110016.

General Sales Exports, 148, Jorbagh, New Delhi 110003.

Hansa Agencies Pvt. Ltd., 4B/3, Ganga Ram Hospital Marg, New Delhi 110060.

Hira Lal & Son, 20, East Park Area, Karol Bagh, New Delhi 110005.

Indo Craft Exports, 23, Darya Ganj, New Delhi 110002.

Ivory Mart, 22-F, Connaught Place, New Delhi 110001.

J. R. Sharma & Co. Pvt. Ltd., 3622, N. Subhas Mrg., Delhi 110006

Lall's Copper & Brass Palace, 1009, Chawri Delhi 110006.

Nath Bros., 50/2-3, Hanuman Rd., New Delhi 110001.

Nava Bharat Enterprises Pvt. Ltd., Surya Kiran K. Gandhi Mrg., New Delhi 110001.

Oriental Trading Society, F7, Jangpura Extn., New 110014.

Paramount Traders, 4/47, W.E A., Karol Bagh, Delhi 110005.

R. D. Ramnath Co., Jama Masjid, Delhi 110006.

R. L. Khanna & Co. (Delhi), Khanna House, 15, Jang Ext., New Delhi 110014.

Reliance International Corpn. Pvt. Ltd., 4/2-B, Jawa Mansion, A. Ali Rd., New Delhi 110002.

S. Nath Kakar & Son, 41, Hanuman Rd., New Delhi 11

Seven Seas Exporters, 131, Sadar Bazar, Delhi 1100

Surya Trading Corpn. of India Pvt. Ltd., B59/21, II, Narain Ind. Area, New Delhi 110028.

Wellworth Trading Corpn., 82, Joshi Rd., Karol New Delhi 110005.

Yadav & Co., 2886, Tentwali Gali, Darya Ganj, Delhi 110002.

Maharashtra

Bharat Industries Corpn., Janmabhoomi Chambers, St., Bombay 400001.

Kairali, Nirmal, Nariman Point, Bombay 400021.

Murlidhar Sons, 7, Smeeta Nivas, Chira Bazar, Bombay 400002.

Narang Overseas Pvt. Ltd., Beach View Bldg., 93 B. Desai Rd., Bombay 400026.

Rajasthan

Curious House, Udaipur 313007.

Uttar Pradesh

Abdul Majid & Bros., Banjaran St., Saharanpur 2470

H. Abdul Qayyum & Bros., Bara Shah Safa, P.B. 49, Moradabad 244001.

Indiacraft Emporium, P.B. 128, Dehra Dun 248001.

Jandaood & Co., Bhatti St., Moradabad 244001.

Marble Emporium, 18/1, Gwalior Rd., Agra Cantt. 282

National Import & Export Co., Bombay Bazar, P.B. 28, Meerut 250001.

Nayar & Sons, P.B. 103, Deputy Ganj, Moradabad 244001

Saxan Traders, Narendra Bldg., Sagar Sarai, P.B. 64, Moradabad 244001.

Wajidson Pvt. Ltd., Qasre-Wajid, P.B. 79, Moradabad 244001.

HANDLOOM LUNGIES

Lotus Industries Ltd., Burma House, 16, Coral St., Madras 600001.

HARDWARE TOOLS & MACHINERY

Andhra Pradesh

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Vibgyor (I) Co., 8571, R. P. Rd., Secunderabad 50

Delhi

Delhi Hardware & Metal Stores, 822, Nai Sarak, 110006.

Delhi Hardware Store, 1917, Sirkiwalan, Delhi 1

Hardware Co. Ltd., 3620, Chawri Bazar, Delhi 110006.
Hardware Traders, 62, Shradhanand Mrg., Delhi 110006.
Milhard & Co., Hauz Qazi, Delhi 110006.
Vinod Metal Industries, 29, Chawri Bazar, Delhi 110006.

Karnataka

Mahboobali Md. Yakub & Sons, Gulbarga 585101.
Mangilal & Co., United Bldg., J.C. Rd., Bangalore 560002.
Town Hardware Stores, 5, Godown St., Bangalore 560002.

Kerala

C. A. Galiakotwala & Co. Pvt. Ltd., Bazar Rd., Cochin 682002.
Chakiat Bros., Ernakulam 682011.
General Hardware Stores, Mullakkal, Alleppey 688001.
Kerala Trading Corpn., Bazar Rd., Cochin 682002.
South India Corpn. Pvt. Ltd., Bazar Rd., Cochin 682002.

Maharashtra

Abdullabhai Faizullabhai Pvt. Ltd., 60-62, Sarang St., Bombay 400003.
Ashok Industrial Traders, 50, Bibijan St., Bombay 400003.
B. M. Abdeally & Co., 127, Sarang St., Bombay 400003.
Bharat Engg. Stores, 31, Nagdevi Cross Lane, Bombay 400003.
Bombay Hardware Co., 91, Kika St., Bombay 400004.
Bombay Hardware Traders, 79, N. Dhuru St., Bombay 400003.
Commercial Supplying Agency, 211, Nagdevi St., Bombay 400003.
Conet Corporation, 73, Nagdevi Lane, Bombay 400003.
Dawoodi Hardware Mart, 84, Bhajipala St., Bombay 400003.
Hardware & Mill Stores, 172, Nagdevi St., Bombay 400003.
Hardware Trading Syndicate, 51, Bibijan St., Bombay 400003.
Mutual Traders, 155, N. Dhuru St., Bombay 400003.
Raj Tools Corpn., 50, Bibijan St., Bombay 400003.
Reuben Enterprises, 82, Narayan Dhuru St., Bombay 400003.
Shah Trading Co., 163, Narayan Dhuru St., Bombay 400003.

Tamil Nadu

A. M. Hassanally Co., 34 Linghi Chetty St., Madras 600001.
Asia Corporation, Mill Rd., Coimbatore 641001.
Bhagat & Co., S. A., 26, P. Maistry St., Madras 600001.
Bombay Trading Agency, 22, E. Chetty St., Madras 600001.
India Co. Private Ltd., 161, Union High School Rd., Coimbatore 641012.
Indian Commercial Corpn., 6, Shanmugam Chettiar Rd., Coimbatore 641002.
Indian Hardware Stores, 73, Sembudoss St., Madras 600001.
Indian Overseas Trdg. Corpn., 295, Power House Rd., Coimbatore 641012.
Lehri Bros., 17, Sembudoss St., Madras 600001.
Madras General Supply Corpn., 11, Singanna Naick St., Madras 600001.
Mehta Doshi & Co., 334, T. Chetty St., Madras 600001.
S. K. Electricals, 7, Govindappa Naick St., Madras 600001.
South India Corpn. Pvt. Ltd., 50, Race Course Rd., Coimbatore 641018.

West Bengal

Atlas Industrial Stores, 89, Netaji Subhas Rd., Calcutta 700001.
Calcutta Hardware Store, 110/1, Amherst St., Calcutta 700009.
Dominion Hardware Stores, 40, Strand Rd., Calcutta 700001.
Hardware Mart, 159, N. Subhas Rd., Calcutta 700001.
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Jeyam & Co., 43/44, Anderson St., Madras 600001.

Kaveri Agencies, 24, Anderson St., Madras 600001.

Paper Supplies Agencies, 331/333, Thambu Chetty St., Madras 600001.

Papers & Co., 35, Anderson St., Madras 600001.

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Bholanath Paper House Pvt. Ltd., 32-A, Brabourne Rd., Calcutta 700001.

Calcutta Paper Supply Co., 26, Amherst St., Calcutta 700009.

Hanuman Paper Co., 12, Jackson Lane, Calcutta 700001.

Hindustan Paper & Board Co., 21, Synagogue St., Calcutta 700001.

Mymensingh Paper Agency Pvt. Ltd., 19, Sukeas Lane, Calcutta 700001.

Paper & Board Supplying Agency, 25-A, Swallow Lane, Calcutta 700001.

Paper Trading & Distributing Co., 60, M. Gandhi Rd. Calcutta 700009.

Paper Trading Syndicate Pvt. Ltd., 44, Harish Neogy Rd., Calcutta 700004.

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Alpha Lubricants, 50/52, Issaji St., Bombay 400003.

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Modern Lubricants, 6, Ashok Ind. Estate, L. B. S Mrg., Mulund, Bombay 400080.

Panama Industries, 416, Katha Bazar, Narsi Natha St., Bombay 400009.

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Raj Lubricants, 6-A, Kailasa Mudali St., Tondi, Madras 600081.

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Continental Photo Stores, 243-45, Dr. D. Naoroji Rd., Bombay 400001.

Forward Stores, Mangalwadi, J. Shankarshet Rd., Bombay 400004.

Kodak Ltd., Kodak House, Dr. D. Naoroji Rd., Bombay 400001.

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Patel India Pvt. Ltd., 190, Dr. D. Naoroji Rd., Bombay 400001.

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M. M. Ebrahimji & Co., 147, Nagdevi St., Bombay 40000

Maganlal Pranlal & Sons, 105, Nagdevi St., Bomba 400003.

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Commercial & Engg. Corpn., 138, BRBB Rd., Calcutta 700001.

Deepak Engg. Co., 37, BRBB Rd., Calcutta 700001.

Eastern Engg. Enterprises, 54, G. C. Avenue, Calcutta 700013.

General Machinery Corpn., 13, G. C. Ave., Calcutta 700013.

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Moti Lal Jain & Co., 3622, Chawri Bazar, Delhi 11

Prakash & Co., 3690, Chawri Bazar, Delhi 110006.

Prem Enamel & Metal Factory, Bara Hindu Rao, D 110006.

R. B. Rodda & Co. Ltd., 4K, Connaught Circus, N Delhi 110001.

Gujarat

Gujarat Tube & Sanitary Stores, Khadia Char Rasta, Ahmedabad 380001.

Maharashtra

A. G. Karimji Calcuttawala, 82, Kika St., Bombay 400004.

A. H. Shah & Co. Pvt. Ltd., Nanabhai Mansion, Sir P. M. Rd., Bombay 400001.

All India Trading Centre, 100, Mint Rd., Bombay 400001.

Aranha Agencies, St. Michael Ch., L. J. Rd., Mahim, Bombay 400016.

Asgaralli Nuruddin & Co., 95, Nagdevi St., Bombay 400003.

Bharat Pipe & Sanitary Corpn., 67-69, Mohamedali Rd., Dada Manzil, Bombay 400003.

Bharat Sanitary Stores, 73, Nagdevi St., Bombay 400003.

Bombay Building Materials Trading Co., 73, Medows St., Bombay 400023.

C. Bhogilal & Co., 310, P. Nariman St., Bombay 400001.

C. Tribhovandas & Co., 11, Green St., Bombay 400023.

Ceramica, 98, Medows St., Bombay 400023.

Crown Sanitary Suppliers, 9, 1st Cooper St., Bombay 400003.

Gopal Chand Puri & Brothers, 70, Mohamedali Rd., Bombay 400003.

Indian Ceramic Centre, 20/24, Old Custom House Rd., Bombay 400001.

Jivraj & Vrajlal, 122, Nagdevi St., Bombay 400003.

K. Chimanlal & Co., 107A, Nagdevi St., Bombay 400003.

K. Gigabhai & Sons., 8-10, Green St., Bombay 400023.

Maganlal Pranlal & Sons, 105, Nagdevi St., Bombay 400003.

Modern Tube & Sanitary Stores, 48, Nagdevi St., Bombay 400003.

N. M. Mehta & Co., 4-10, Old Custom House Rd., Bombay 400023.

Nanalal Ambalal & Co., 69, Nagdevi St., Bombay 400003.

P. S. Parekh & Co., 108, Nagdevi St., Bombay 400003.

Parikh Brothers, 12, Elphinstone Circle, Botawala Bldg., Bombay 400001.

R. C. Puri & Sons, 64-C, Sharu Castle, Mohamedali Rd., Bombay 400003.

R. Moolchand & Co., 44, Nagdevi Cross Lane, Bombay 400003.

Richardson & Cruddas Limited, Byculla Iron Works, Parel Rd., Bombay 400008.

United Potteries & Glassware Mart, 22, Noble Chambers, S. A. Brelvi Rd., Bombay 400001.

Vinubhai Chandulal & Co., 63, Nagdevi St., Bombay 400003.

Tamil Nadu

Bharat Sanitary Stores, 629, Perianna Maistry St., Madras 600001.

Calcutta Light Casting Supply Co., 19, E. Chetty St., Madras 600001.

Girnath Agencies, 133A, Crosscut Rd., Tatabad, Coimbatore 641012.

Haridas Bhagat & Co. Pvt. Ltd., 9/240, Crosscut Rd., Coimbatore 641012.

King & Co., 25, Thambu Chetty St., Madras 600001.

Madras Sanitary Mart, 418, Triplicane High Rd., Madras 600005.

Modern Sanitary Supplies, 24, T. Chetty St., Madras 600001.

New India Sanitary Stores, 65/7, Sembudoss St., Madras 600001.

United Mercantile Agencies, 1, Moores Rd., Madras 600006.

West Bengal

Allied Agencies (India), 10, N. Chander St., Calcutta 700012.

Emporia of Commercial Stores, 22, N. Subhas Rd., Calcutta 700001.

Hindusthan Distributors, 33, G. C. Ave., Calcutta 700012.

Laxmi Pottery Agencies, 7, R. Bazar St., Calcutta 700001.

R. B. Rodda & Co. Ltd., 2, Red Cross Place, Calcutta 700001.

Sanitary & Plumbing Stores Pvt. Ltd., 146, S. P. Mukherjee Rd., Calcutta 700026.

SCRAP

Metal Scrap Trade Corpn. Ltd., 225-E, A. J. Bose Rd., Calcutta 700020.

Nathani Steel Pvt. Ltd., Vidya Vihar Railway Station, Bombay 400086.

Waste & Scrap Reclamation Centre, 1-1, Edward Elliots Rd., Madras 600004.

SCIENTIFIC INSTRUMENTS & LABORATORY EQUIPMENTS

Delhi

India Scientific Stores, 562, Esplanade Rd., Delhi 110006.

Gujarat

Scientific & Surgical Corpn., Khadia Kuin, Ahmedabad 380001.

Shah & Co., 66, Shantisadan Estate, Opp. Dinbai Tower, Lal Darwaja, Ahmedabad 380001.

Maharashtra

Adair, Dutt & Co. (India) Pvt. Ltd., Syndicate Bank Bldg., Sir P. Mehta Rd., Bombay 400001.

Beekay International, 44/46, Popat Wadi, Mahabir Bldg., Bombay 400002.

C. Abhaykumar & Co., 127, Princess St., Bombay 400002.

Electronic Centre, 105/107, A. Rehman St., Asma Manzil, Bombay 400003.

India Scientific Emporium, Kamdar Chambers, Sion East, Bombay 400022.

Indo-Chem Corpn., 615, Cotton Exchange Bldg., Bombay 400002.

J. T. Jagtiani, National House, Tulloch Rd., Apollo Bunder, Bombay 400039.

Kalidas Madhavji & Co., 100, Princess St., Bombay 400002.

Lab-Hosp. Corpn., C/9, Laghu Udyog Kendra, I. B. Patel Rd., Goregaon East, Bombay 400063.

Scientific Sales Syndicate, 24, 1st Dhobitalao Lane, Bombay 400002.

Scientific & Technical Home, 443, D. Bhadkamkar Mrg., Bombay 400004.

Silica Ware Pvt. Ltd., Chotani Estate, Proctor Rd., Grant Rd., Bombay 400007.

Unique Scientific Syndicate, 351, S. Memon St., Bombay 400002.

Unique Trading Corpn., 221 Sheriff Devji St., Bombay 400003.

Vikas Glass Apparatus Co., 114, Satyam Industrial Estate, Bombay 400088.

Vora Bros., 214-B, S. Gandhi Mrg., Bombay 400002.
Zill & Co., 128, S. Gandhi Mrg., Bombay 400002.

Tamil Nadu

Industrial & Laboratory Equipment Co., 22, P. Maistry St., Madras 600001.
Instruments & Equipments, 16, Meeran Sahib St., Madras 600002.
Lab Ella Instrumentina, 5, Umpherson St., Madras 600001.
Mehta Scientific Corpn., 99, Perumal Mudali St., Madras 600001.
New Trade Links, 9, Kasichetty St., Madras 600001.
Precision Scientific Co., 4/14, Baker St., Madras 600001.
Sakti Scientific Instrument Co., 17, Venkatesan St., T. Nagar, Madras 600017.
Sampat Ceramics Pvt. Ltd., 119, Nainiappa Naicken St., Madras 600003.

West Bengal

Automatic Scientific Supply, 149/1, Beliaghata Main Rd., Calcutta 700010.
Banner & Co., 265, B. B. Ganguly St., Calcutta 700012.
Ghose Bros., 14/2, Old China Bazar St., Calcutta 700001.
Industrial Enterprises, 71, BRBB Rd., Calcutta 700001
International Commercial Traders, 18, Era St., Calcutta 700001.
Luxmi Scientific Glass Works, 4/8, Ultadanga Main Rd., Calcutta 700004.
New India Scientific Works, 63, Baithakhana Rd., Calcutta 700009.
Oriental Trading Corpn., 135, BRBB Rd., Calcutta 700001.
Scientific Supplies, 55, BRBB Rd., Calcutta 700001.
Wassan Bros., 26, J. Nehru Rd., Calcutta 700013.

SEAFOOD EXPORTERS

Ahmed Oomerbhoy (Exports) Pvt. Ltd., Sitaram Bldg., "D" Block, Palton Rd., Bombay 400001.
Alpha Seafoods, P. B. No. 848, Cochin 682005.
Apollo Seafoods, Balmatta Rd., Mangalore 575001.
Associated International Corpn., 11, Pollock St., Calcutta 700001.
Bhaflekar Fish Products Co., 308, Varma Chambers, Homji St., Bombay 400001.
Blue Bay Fisheries Pvt. Ltd., 12/140 A, Kochangadi, Cochin 682005.
Bombay Fisheries Corpn., Hazarat Terrace, Sankli St., Byculla, Bombay 400008.
Chemmeens (Exports) Pvt. Ltd., Edacochin, Cochin 682006.
Cochin Seafoods, 1/64, Arcot Rd., Alwarthirunagar, Madras 600087.
Continental Seafoods India Pvt. Ltd., Arunachala Eswaran Koil St., Madras 600081.
Cordel Sea Foods Pvt. Ltd., Sepoy St., Cuddalore 607003,
Danda Fisheries Pvt. Ltd., 19, Mohatta Mkt., Palton Rd., Bombay 400001.
E. I. D. Parry Ltd., Marine Products Unit, P. B. No. 380, Cochin 682002.
Eastern Seafood Exports Pvt. Ltd., 1/6, Harrington Avenue, Chetput, Madras 600031.
Eduthan Fishing Corpn., 1183, Opp. Hindi Prachar Sabha, Chittoor Rd., Ernakulam, Cochin 682016.
Fazalbhai Ibrahim & Co. Pvt. Ltd., Ismail Bldg., 381, Dr. Dadabhai Naoroji Rd., Bombay 400001.
Geo Seafoods, P. B. No. 906, Cochin 682006.
General Seafoods Pvt. Ltd., P. Box 31, Quilon 691001.
Gulf Sea Food Export House & Sea Food Export Corpn., 41, Korepope St., Tuticorin 628001. (Tamil Nadu).
Haly Fisheries, C. S. Maharaj Mkt., Room No. 3, Palton Rd., Bombay 400001.
Hussain Exports Pvt. Ltd., 1/12, Jagannathan Rd., Nungambakkam, Madras 600034.
India Seafoods (Regd.), P.B. No. 813, Cochin 682005.
Indo-Marine Agencies (Kerala) Pvt. Ltd., Kochangadi, Cochin 682005.
Island Seafoods Pvt. Ltd., P.B. No. 580, Island Club House, Cochin 682003.
Karnatak Exports Ltd., 33/195, T. D. Rd., Ernakulam, Cochin 682011.
Karthika Marine Industries Pvt. Ltd., Chittoor Rd., Ernakulam, Cochin 682018.
Kerala Exports Pvt. Ltd., XII/1151 A, Panayappilly, Cochin 682002.
King Fisher Marine Products, 28-F, Wallers Rd., Madras 600002.
Konkan Fisheries Pvt. Ltd., India House, 3rd Flr., Opp. G.P.O., Bombay 400001.
Kothari (Madras) International, 'Kothari Bldgs.', 20, Nungambakkam High Rd., Madras 600034.
Manerkar Fisheries Pvt. Ltd., Roshan Mahal, P.B. No. 42, Swatantraya Path, Vasco Da Gama 403802. (Goa).
Nava Bharath Enterprises Pvt. Ltd., Fisheries Divn., Door No. XVIII/1556(A), Near Laxmi Narayana Saw Mill, Cochin 682005.
New India Fisheries Ltd., Karuvelipadi, Cochin 682005.
Oceanic Products Exporting Co., Choolakkaparambil Rd., Ernakulam, Cochin 682018.
Oriental Marine Products Pvt. Ltd., Old Shah Wallace Bldg., Madras 600001.
Prawns International Corpn., Karuvelipadi, Cochin 682005.
Quilon Seafoods, P. B. No. 2, M.C. No. 62, Kochupilamood, Quilon 691001.
Rani Exporters Pvt. Ltd., C/o Santosh Aquatic Products, 11/4 Beebi Alabi Rd., Bunder, Mangalore 575001.
Ravi Fisheries Pvt. Ltd., Nilum Mansion, Lamington Rd., Bombay 400004.
Revathy Exports Pvt. Ltd., XXV/1947 "Aravind", Vyttila, Cochin 682019.
Rosebunch Seafoods Pvt. Ltd., 1/6, Harrington Avenue, Chetput, Madras 600031.
Seafood (Exports) Pvt. Ltd., Cheriakadavu, Kannamaly, Cochin 682007.
Southern Seafoods Ltd., "Montieth Court", 15, Montieth Rd., Madras 600008.
United Exporting Co., P.B. No. 833, Cochin 682005.
United Industries (Cochin) Ltd., Kochangadi, Cochin 682002.
Universal Marine Agencies, Bharath Bldg., KSR Cross Rd., Mangalore 575001.
Vijaya Industries, P.B. No. 828, Cochin 682005.

SEWING MACHINES

Maharashtra

E. H. Turel & Co., 48, Clare Rd., Byculla, Bombay 400008.
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REPAIRERS OF REPUTE.
ATTACHMENTS OUR SPECIALITY.

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Sundersons, 647, J. Shanker Sheth Rd., Bombay 400004.

Tolaram Ramdas & Co., 629-B, J. Shanker Sheth Rd., Bombay 400002.

United Trading Agencies, 611, Girgaum Rd., Bombay 400002.

Punjab

Automite (India), 627, Naya Mohalla, Ludhiana 140101.

Columbia Sewing Machine Co., 13, Ganesh Mkt., Lakkar Bazar, Ludhiana 141001.

Hans Sewing Machine Co., Moongphali Mandi, Miller Ganj, Ludhiana 141003.

Manohar Sewing Machine Co., Lakkar Bazar, Ludhiana 141003.

Pilot Sewing Machine Co., Lakkar Bazar, Ludhiana 141003.

Popular Sewing Machine Co., Lakkar Bazar, Ludhiana 141003.

R. L. Sewing Machine Co., Pindi St., Ludhiana 141003.

Yash Mechanical Co., B-VIII, 613, Lakkar Bazar, Ludhiana 141003.

Tamil Nadu

Radha Enterprises, 56, Royapettah High Rd., Madras 600004.

West Bengal

Bose & Co., 149 1, Lenin Sarani, Calcutta 700013.

SPORTS GOODS

Goa

Goa Vidya Bhandar, P.O. Box No. 248, Margao 403601.

Maharashtra

A. N. Kapoor & Co., 302, L. Tilak Marg, Bombay

D. D. Sharma & Co., Dhobi Talao, Bombay 400020.

Pioneer Sports Works Pvt. Ltd., 292, Tilak Mrg., B 400002.

Tamil Nadu

Lightway Sports Co., 199, Mount Rd., Madras 600002.

West Bengal

G. K. Sports, 30, J. Nehru Rd., Calcutta 700016.

Pioneer Sports (I) Pvt. Ltd., 25, J. Nehru Rd., Calcutt 700013.

SPRAY PAINTING GUNS

International Machine Tools Corpn., 5, Bank St., Bombay 400023.

M. Baker & Co., 35, Nagdevi St., Bombay 400003.

STOCKINETTE

Lotus Industries Ltd., Burma House, 16, Coral Merchant St., Madras 600001.

SURVEYING INSTRUMENTS

(See Under Scientific Instruments and Laboratory Equip ment in this list.)

SYNTHETIC ENAMEL & CELLULOSE LACQUERS

Empire Paints & Hardware Centre, 56, Motiwala Bldg 2nd Rd., Khar, Bombay 400052.

Harilal & Co., 18, Rohit Chambers, Parsee Bazar St Bombay 400001.

M. Baker & Co., 35, Nagdevi St., Bombay 400003.

Marvin & Co. Pvt. Ltd., 3, Mody Chambers, Kenned Bridge, Bombay 400004.

Mehta Hardware & Paints Mart, Lila Nivas, Napoo Rd., Matunga (C. Rly.), Bombay 400019.

Santaram Nikkamal Pvt. Ltd., 32, Bibijan St., Bombay 400003.

TEXTILE STORES & MACHINERY

Gujarat

Pargans (India) Pvt. Ltd., Industrial Mills' Estate Gomtipur, Ahmedabad 380021.

Maharashtra

Acme Mfg. & Agencies (India), 4, Dean Lane, Alli Cham bers, Bombay 400001.

Altex Pvt. Ltd., P. Box 1096, Bombay 400001.

Arvinda Trading Co. Pvt. Ltd., 105, Apollo St., B 400023.

B. Thanawala & Sons Pvt. Ltd., 47, Tamarind La Bombay 400023.

Bombay Mill Stores Supply Co. Pvt. Ltd., W.I. House Sir P. Mehta Rd., Fort, Bombay 400001.

C. Doctor & Co. Pvt. Ltd., 11, Homi Mody St., 400023.

Chunilal Mulchand & Co., Waterloo Mansion, Mada Cama Rd., Bombay 400039.

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Supreme Sales Agency, Delhi.
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" ALTEX " Brand Cotton Healds and Steel Reeds and
" ALTEX " Brand All Metal Reeds, Heald Piecing Yarn and Dobby Harness.

Indian Standard Metal Co. Ltd.
P.I.V. Gear Indigenous Make, Spares & Chains.

Platt International Ltd., Oldham (U.K.)
P.I.V. Gears and Metal Alloy Bobbins.

Pulrose Co. Ltd., Manchester, England.
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Sub-Agents :
K. Podar, 15/56, Civil Lines, Kanpur.
Tilkam Agencies, 118, Yanam Venkatachalem Street, Pondicherry 1.

Engineering & Agencies Pvt. Ltd., French Bank Bldg., Homji St., Bombay 400001.
Excelsior Mill Supply Co., Ltd., 45-46, Alli Chambers, N. Master Rd., Bombay 400001.
Indian Textile Engineers Pvt. Ltd., 81-83, Veer Nariman Rd., Bombay 400020.
Indo-Foreign Textile Co., 43, Tamarind Lane, Bombay 400023.
Industrial Leather Co. Ltd., 9, Ash Lane, Bombay 400023.
J. Bracewell Pvt. Ltd., Nagree Bldg., 50/56, Custom House Rd., Bombay 400001.
Mehta Parikh & Co., Pvt. Ltd., 45-47, Apollo St., Bombay 400023.
Nagindas Kilabhai Pvt. Ltd., Crescent Chambers, Tamarind Lane, Bombay 400023.
Ormerods (India) Pvt. Ltd., 12, Apollo St., Bombay 400023.
Phiroz N. Motabhoy & Co. Pvt. Ltd., 146, Nagindas Master Rd., Bombay 400001.
Prakash Trading Co., Mangrol Mansion, Bora Bazar St., Bombay 400001.
S. C. Sheth & Co. Pvt. Ltd., 8, Hamam St., Bombay 400001.
Star Trading Co. Pvt., Ltd., Dhanraj Mahal, C. Shivaji Maharaj Marg, Bombay 400039.
Surendrakumar & Co. Pvt. Ltd., C-3, Corinthian, Near Telephone Bhavan, Colaba, Bombay 400005.
Textray Traders Pvt. Ltd., Laxmi Bldg., 6, Ballard Rd., Bombay 400038.
Unitex Corpn., 712, Embassy Centre, Nariman Point, Bombay 400021.
Voltas Ltd., Elphinstone Bldg., Veer Nariman Rd., Bombay 400001.
W. H. Brady & Co., Ltd., Brady House, 12/14, Veer Nariman Rd., Bombay 400001.

Tamil Nadu

Acme Textiles, 6/520, Trichy Rd., P.O. Box 145, Coimbatore 641018.

Uttar Pradesh

Thanawala Stores Trading Corpn., Vivek Bldg., Chuniganji, Kanpur 208001.

TIMBER

Anand Timber Traders, 170, Reay Rd., Bombay 400010.
Baroda Timber Trading Co., Bombay Timber Market Ltd., Reay Rd., Bombay 400010.
Famous Timber Trading Co., 74, Ismail Curtey Rd., Bombay 400010.
Fopco Traders, 100, Victoria Rd., Mustafa Bazar, Bombay 400010.
Maklai Timber Mart, 79, Ghoghari Mohalla, Bombay 400003.
Parekh & Co., 77, Victoria Rd., Mustafa Bazar, Bombay 400010.
Rameshchandra & Co., 158, Reay Rd., Bombay 400010.
Shree Shankar Vijay Saw Mill, Ghorapdeo, 108, Reay Rd., Bombay 400033.
Timber Supplying Corpn., 134, Reay Rd., Bombay 400010.
Wood Sellers Syndicate, Gala No. 99, Victoria Rd., Mustafa Bazar, Bombay 400010.

TOOL, ALLOY & SPECIAL STEEL

Agarwal Machine & Engineering Stores, 63/69, Nagdevi Cross Lane, Bombay 400003.
Ajay Engg. Inds., Churchgate Chambers, New Marine Lines, Bombay 400020.

Baijnath & Sons, 22, Strand Rd., Calcutta 700001.
Bathija Corporation, No. 2, Jelly, Strand Rd., Calcutta 700001.
Cambay Tool Steel Co., 924, Memonwada Rd., Dada Manzil, Bombay 400003.
Carex Trading Co., 35, 1st Pathan St., Bombay 400004.
Comet Steels, 3/11/29, Navjivan Socy., Lamington Rd., Bombay 400008.
Consolidated Steel Corporation, 30, Narayan Dhuru St., Bombay 400003.
Continental Steel Corpn., 12/14, Ardeshir Dady St., Bombay 400004.
Dharamdas M. Jhaveri & Co., 284, Nagdevi St., Bombay 400003.
Indian Metal Inds., 6/11, Jagdish Kunj, R. A. Kidwai Rd., Wadala, Bombay 400031.
Khandelwal Agencies, 23, Mooker Nallamuthu St., Madras 600001.
Maharashtra Steel Corpn., 52, Baroda St., Bombay 400009.
Mehta Steel Co., 36, Bora Bazar St., Bombay 400001.
N. Ratilal & Co., Darukhana, Oza Mkt., Mazgaon, Bombay 400010.
Perfect Alloy Steel Agency, 101, Nagdevi St., Bombay 400003.
S. J. Trading Co., 91, Khetwadi Back Rd., Khemraj Bhuvan, Bombay 400004.
Shah Engg. Equipment Co., 145, Kassara St., Bombay 400010.
Steel Centre, 29, Strand Rd., Calcutta 700001.
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St., Bombay 400003.

TOOLS

(See Hardware Tools and Machinery in this list).

TRACTORS & SPARES

(See Earthmoving Machinery & Spares in this list).

TYPEWRITERS

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400018.

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700001.
Bakubhai Ambalal, Kaiser-I-Hind Bldg., Cu
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Blue Star Ltd., 414/2, V. Savarkar Mrg., Bombay 400
C. Bole & Co., 61, Narayan Dhuru St., Bombay 4000
C. Vadilal & Co., 40, Nagdevi X Lane, Bombay 4000
Chhotalal & Sons, 141, Narayan Dhuru St.,
400004.
Commercial Trade Corpn., 81, C. P. Tank Rd., Bombay
400004.
Crescent Trading Co., 48-50, Bhajipala St., Bomba
400003.
D. L. Vaid, 181, Janjikar St., Bombay 400003.
G. K. Kansara, 118, Kansara Chawl, Kalbadevi Rd.,
Bombay 400002.
Govardhandas P. A., 144, Nagdevi St., Bombay 4000
Gujarat Tube & Hardware Mart, 24, Nagdevi X Lane,
Bombay 400003.
Indian Engineers, 1/37, Roopnagar, Delhi 110007.
International Sales (India), 27, Unique Ind. Est
Savarkar Mrg., Prabhadevi, Bombay 400025.
K. B. Corpn., Jaldarshan, Ashram Rd., Ahmedabad
380009.
K. D. Nania & Co., 7/8, Tardeo Air-Conditioned M
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Mehta Mill Gin Stores, 28, Nagdevi St., Bombay 40
Mehta Nanavati & Co., 96, Narayan Dhuru St., Bom
400003.
Metro Tube Trading Co., 131/35, N. Dhuru St., Bo
400003.
Mody Bros. & Co.. 52, Nagdevi X Le., Bombay 400
Muljibhai & Co., 76/78, Nagdevi St., Bombay 400
Nowgarh Trading Co., 8, Morland Rd., Bombay
Pankaj Trading Corpn., 25, Bibijan St., Bombay
Patel Bros. & Co., 41, Nagdevi X Lane, Bombay
Rajiv Corpn., 61-73, Narayan Dhuru St., Bombay 40
Rajnikant & Co., 53, Bhajipala Lane, Bombay
S. Sevantilal & Co., 246, Y. Meheralli Rd., Bombay
Shakti Sales Corpn., 70, Chakla St., Bombay
Shankar Trading Co., 38, Linghi Chetty St., Madras
Super India Sales Corpn., 2853, Peepal Mahadev,
Khas, Delhi 110006.
Swanlee Agencies, 3-A, Vasu St., Kilpauk, Madras
Swastik Trading Co., 152, N. Dhuru St., Bombay

Tru-A Line, 24, Kariappa Mudali St., Madras 600007.
Universal Mercantile Corpn., 109-111, Nagdevi St., Bombay 400003.
Venus Trading Corpn., 502, Loha Bhavan, P. D.'Mello Rd., Bombay 400009.

WEIGHING MACHINES

A. A. Katawalla, 194, Janjikar St., Bombay 400003.
Associated Services, 1170/1, Junglee Maharaj Rd., Pune 411005.
B. Ganapathi Bhandarkar, 176, Golikatta Bazar, Mangalore 575001.
Bhuvaneswari & Co., 100, Armenian St., Madras 600001.
Blue Star Ltd., Band Box House, Dr. A. Besant Rd., Bombay 400025.
Giri Bros., 28, Broadway, Madras 600001.
Hindustan Scale Co., 186-188, Janjikar St., Bombay 400003.
M. Framroze & Co., 210, Dr. D. Naoroji Rd., Bombay 400001.
Misrilal Motilal, 71, Sarang St., Bombay 400003.
Sri Venkateswara Scales Co., 79, Acharappan St., Madras 600001.

WELDING EQUIPMENT

Arc Brazer Pvt. Ltd., 84, Foras Rd., Bombay 400008.
Blue Diamond Engg. Corpn., Stock Exchange New Bldg., Dalal St., Bombay 400023.
Bomcal Syndicate, 526A, N. Subhas Rd., Mulund West, Bombay 400080.
Hasmukh & Hasmukh, 5, Sobha Sadan, 8, Jawahar Nagar, S. V. Rd., Goregaon, Bombay 400062.
Impex Engg. & Equipment Co., 138/140, N. Dhuru St., Bombay 400003.

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Industrial Equipment Suppliers, 58, N. Subhas Rd., Calcutta 700001.
Industrial Products, F/15. Nandjyot Ind. Estate, Kurla Andheri Rd., Bombay 400072.
Industrial Steel & Hardware Stores, 85, Netaji Subhas Rd., Calcutta 700001.
Jayprakash & Sons, 57, Sutar Chawl, Bombay 400002.
J. B. Advani & Co. (Mysore) Pvt. Ltd., Unity Bldgs., J. C. Wadiyar Rd., Bangalore 560002.
M. N. Hussein & Co., 90, Armenian St., Madras 600001.
Mehta Doshi & Co., 334, Thambu Chetty St., Madras 600001.
Machinery Marketing Corpn., 261, Dr. D. N. Rd., Bombay 400001.
Mahendra Bros., 163-B, Sheth Motishah Le., Byculla, Bombay 400027.
Manish Agency, 357, Sardar V. P. Rd., Bombay 400004.
Metasafe Trdg. Corpn., 65, Apollo St., Bombay 400023.
Navin Trading Co., 40, Strand Rd., Calcutta 700001.
Prakash Traders, 8, Parsee Church St., Calcutta 700001.
Premier Engg. Co., 20, Broadway, Madras 600001.
Reliable Trading Agency, 23, B.R.B.B. Rd., Calcutta 700001.
Roopmeck Enterprises, 29, Ashish Ind. Estate, Gokhale Rd. South, Bombay 400025.
Sisko Supply & Engg. Corpn., 42/1, Strand Rd., Calcutta 700007.
Unique Trading Co., 72, Nagdevi St., Bombay 400003.
Vharawdekar Bros., 257, P. D'Mello Rd., Bombay 400001.
Welding Equipment Traders, 29/21, Gate No. 6, New Rohtak Rd., Ind. Area, New Delhi 110005.

WIRE ROPES

Abdulhusein Peerbhai & Sons, 66-68-A, N. Kohli Mrg., Bombay 400003.
Amratlal Chhaganlal & Co., 143, Nagdevi St., Bombay 400003.
Eastern Stores & Trading Co. Ltd., 115-A, Nagdevi St., Bombay 400003.
Esoofali Esmailji Karachiwalla & Co., 43-45, Narayanrao Koli Marg, Bombay 400003.
Heptoola Nooruddin & Co., 152, Nagdevi St., Bombay 400003.
Jivraj & Vrajlal, 122, Nagdevi St., Bombay 400003.
Modi & Modi Co., 16, A. Doshi Mrg., Bombay 400023.
Vasi Shums & Co. Pvt. Ltd., Vasi Bldg., Nagdevi St., Bombay 400003.
Western India Marine Mills & Engrs., 185, Janjikar St., Bombay 400003.

WOODEN ARTICLES

Rameschandra & Co., 158, N. Pai Rd., Bombay 400010.

WORKSHOP MACHINERY

Bimpex Machines International, 6, Oak Lane, Bombay 400001.
D. N. Hemmady & Co., P. Box 39, Margao 403601 (Goa).
Jayems Engg. Co., 111-118, S. J. Park Rd., Bangalore 560002.
Machine Tools Syndicate, 13, Dalal St., Bombay 400023.

X RAY MACHINERY

Espi Trading Co., Vandhana Bldg., 11, Tolstoy Mrg., New Delhi 110001.

ZINC CHLORIDE & SULPHATE

Asiatic Chemical Ind., 17, BRBB Rd., Calcutta 700001.

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Kiron Ads, 5-4-187 2/6, M. G. Rd., Secunderabad 500003.

Margadarsi Group of Companies, Margadarsi House, Abid Centre, Hyderabad 500001.

Delhi

Advertising & Sales Promotion Co., 26, Barakhamba Rd., New Delhi 110001.

Asian Advtg., H-35, Connaught Circus, New Delhi 110001.

Delux Publicity Service, A/13/5, Rana Pratap Bagh, Delhi 110007.

Gayways Publicity Pvt. Ltd., 45, Panchkuin Mrg., New Delhi 110001.

Hindustan Publicity Corpn., 21, Darya Ganj, New Delhi 110002.

Interads Advtg. Pvt. Ltd., 4/24, Asaf Ali Rd., New Delhi 110002.

National Publicity Service, A-6, Connaught Place, New Delhi 110001.

New Fields Advtg. Pvt. Ltd., Dharamsingh Ramsingh House, 3/4A, Asaf Ali Rd., New Delhi 110002.

Pioneer Publicity Corpn., 20UB, Jawahar Nagar, Malkaganj Rd., Delhi 110007.

Prince Studio Advtg., Prince House, Sirkiwalan (Hauz Khas), Delhi 110006.

Sterling Advtg. Pvt. Ltd., Jeevan Roop Mansion, L-Block, Connaught Circus, New Delhi 110001.

Universal Advertisers, A-14/3, Asaf Ali Rd., New Delhi 110002.

Gujarat

Apex Advertising, Commerce House, Debhar Rd., Rajkot 360001.

Bidhan Advtg. & Mktg., B-6, Divya Apartment, Navrangpura, Ahmedabad 380009.

Chitra Publicity Co., 1916, Gandhi Rd., Ahmedabad 380001.

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Navnitlal & Co., 1161, Bhadra, Ahmedabad 380001.

Paramount Publicity Co., Jainwadi, Manekchowk, Ahmedabad 380001.

Publicity Parlour, Singaporewala Bldg., Khadia Char Rasta, Ahmedabad 380001.

Karnataka

Advtg. & Sales Promotion Co., 22, Brunton Rd., Bangalore 560025.

Allied Advt. & Printing Co., 46/15, Viswanatha Rao Rd., Bangalore 560001.

Madhya Pradesh

Collate Advtg., 1/2, Yeshwant Nivas Rd., Indore 452003.

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Adroit Advtg., Ismail Bldg., Dr. D. N. Rd., Bombay 400001.

Advtg. & Sales Promotion Co., Vaswani Mansion, D. Wachha Rd., Bombay 400020.

Advtg. Research & Marketing Services, 28, Apollo St., Bombay 400023.

Adverts Pvt. Ltd., Mani Mahal, 11/21, Mathew Bombay 400004.

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Alfred Allan Advtg., Queen's Mansion, 2nd Flr., A. K Nayak Mrg., Bombay 400001.

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Apex Advtg., Cecil Court, 19, Lansdowne Rd., Bo 400039.

Art Advtg. Agency, 52, Embassy Centre, Nariman Bombay 400021.

Associated Advertisers & Printers, Bharatiya Vidya K. M. Munshi Mrg., Bombay 400007.

Bidhan Advtg. & Mktg. Bombay, Navjivan Society, Bl No. 3, 7th flr., Lamington Rd., Bombay 400008.

Classic Advtg., 42, Mittal Chambers, Nariman Po Bombay 400021.

Concept Mktg. & Advtg. Pvt. Ltd., Eruchshaw Bldg., 249, Dr. D. Naoroji Rd., Bombay 400001.

Creative Communication, 15, Walton Rd., Bombay 4

Creative Unit Pvt. Ltd., 143, M. Gandhi Rd., Bo 400023.

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Green's Advtg. Services, Rustom Bldg., 29, V. Nariman Rd., Bombay 400023.

Gujarat Advtg. Agency Pvt. Ltd., 480, Kalbadevi Rd., Bombay 400002.

Heros' Publicity Service, 4-B, Vulcan Insurance Bldg., V. Nariman Rd., Bombay 400020.

Hindustan Thompson Associates Ltd., Lakshmi Bldg., Sir P. M. Rd., Bombay 400001.

Imageads & Communications Pvt. Ltd., Post Box 1557, Bombay 400001.

Imex India Corpn., 1A, Dar-Ul-Muluk, Ramabai Rd., Gamdevi, Bombay 400007.

Impressions Advtg. & Marketing, 61, Anjali, Behind Radio Club, Colaba, Bombay 400005.

Incentive Mktg. & Advtg. Pvt. Ltd., 10, Indian Mercantile Insurance Bldg., 31, Forbes St., Bombay 400023.

Ind Advertising Agency, Commercial Chambers, Masjid Bunder Rd., Bombay 400003.

India Advertising Service, 9, Western India House, Sir P. M. Rd., Bombay 400001.

Inter Publicity Pvt. Ltd., Ballard House, Mangalore St., Bombay 400038.

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Kant Advertising Service, 305, Rajgor Chambers, Masjid Siding Rd., Bombay 400009.

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Ulka Advtg. Pvt. Ltd., Nirmal, Nariman Point, Bombay 400021.

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Aries Advtg. Bureau, 29, Coran Smith Rd., Gopalapuram, Madras 600086.

Criterion Publicity Pvt. Ltd., 19, Woods Rd., Mount Rd., Madras 600002.

Efficient Publicities Pvt. Ltd., 2, General Patters Rd., Madras 600002.

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Alpha Advtg. Service, Marble House, 5/2, Garstin Place, Calcutta 700001.

Associated Advtrs. & Printers, 1/1, Meredith St., Calcutta 700013.

Clarion Advtg. Service Ltd., 55-B, Mirza Ghalib St., Calcutta 700016.

Ideal Advtg. Agency, 54, College St., Calcutta 700073.

India-International News Service, 12, India Exchange Place, Calcutta 700001.

Indian Publicity Bureau Pvt. Ltd., 6/2, Madan St., Calcutta 700013.

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Phoenix Advtg. Pvt. Ltd., 18, Chowringhee Mansion, [illegible], Chowringhee Rd., Calcutta 700016.

Press & Publicity Syndicate Pvt. Ltd., 53, Radha Bazar Lane, Calcutta 700001.

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Progressive Publicity Service, 16-3, Gariahat Rd., Calcutta 700019.

Publicity Forum, 16, R. N. Mukherjee Rd., Calcutta 700001.

Radiant Display (India) Pvt. Ltd., 'Everest', 18th Flr., 46-C, J. L. Nehru Rd., Calcutta 700071.

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Avindia Pvt. Ltd., Liberty Bldg., New Marine Lines, Bombay 400020.

Cambata Aviation Pvt. Ltd., Old Aerodrome, Juhu, Bombay 400054.

H. Sobha Singh Pvt. Ltd., Nagin Mahal, 82, V. Nariman Rd., Bombay 400020.

Khemka Aviation Pvt. Ltd., Safdarjung Airport, M. Block, New Delhi 110003.

AIRLINE COMPANIES

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Air France, Taj Mahal Hotel, Apollo Bdr., Bombay 400039.

Air India, Air India Bldg., Nariman Point, Bombay 400021.

Alitalia Airlines, Ind. Assurance Bldg., Churchgate, Bombay 400020.

British Airways, Vulcan Ins. Bldg., Nariman Rd., Bombay 400020.

Czechoslovak Airlines, Stadium House, Nariman Rd., Bombay 400020.

Egypt Air, 7, J. Tata Rd., Bombay 400020.

Ethiopian Airlines, Taj Mahal Hotel, Bombay 400039.

Garuda Indonesian Airways, 198, J. Tata Rd., Bombay 400020.

Gulf Air, Air India Bldg., Nariman Point, Bombay 400021.

Indian Airlines, Air India Bldg., Nariman Point, Bombay 400021.

Iran Air Lines Corpn., Sunder Mahal, Marine Drive, Bombay 400020.

Iraqi Airways, Mayfair Bldg., 79, V. Nariman Rd., Bombay 400020.

Japan Airlines Co. Ltd., Air India Bldg., Nariman Point, Bombay 400021.

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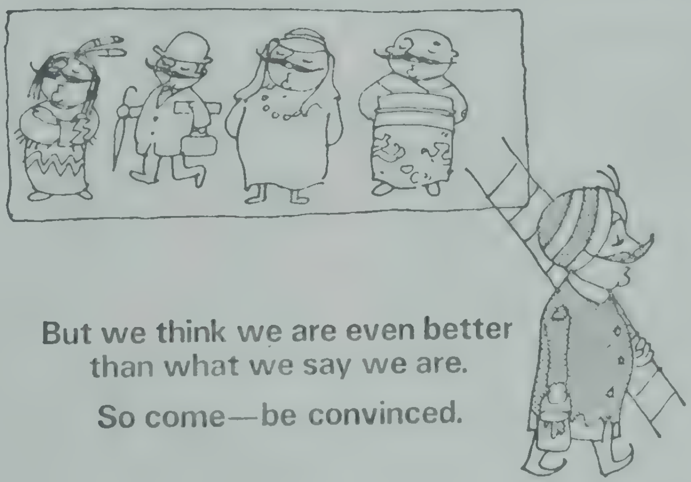

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an American World Airways, Taj Mahal Hotel, Bombay 400039.

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antas Airways Ltd., Oberoi Sheraton Hotel, Nariman Point, Bombay 400021.

abena Belgian World Airlines, Nirmal, Nariman Point, Bombay 400021.

afari Airways, J. K. Bldg., N. Morarjee Mrg., Bombay 400038.

audi Arabian Airlines, Express Towers, Nariman Point, Bombay 400020.

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ingapore Airlines, Air India Bldg., Nariman Point, Bombay 400021.

wiss Air Transport Co. Ltd., Manek Mahal, Nariman Rd., Bombay 400020.

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Aeroflot (Soviet Airlines), 18, Barakhamba Rd., New Delhi 110001.

Air France, Scindia House, Janpath, New Delhi 110001.

Ariana Afghan Airlines Co. Ltd., 19, K. Gandhi Mrg., New Delhi 110001.

Ethiopian Airlines, Janpath Hotel, New Delhi 110001.

Gulf Air, Janpath Hotel, New Delhi 110001.

Qantas Airways Ltd., Janpath, New Delhi 110001.

Royal Nepal Airlines, 44, Janpath, New Delhi 110001.

Syrian Arab Airlines, 13/90, Con. Circus, New Delhi 110001.

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Gulf Air, Kannammai Bldg., 122, Mount Rd., Madras 600006.

Malaysian Airlines Ltd., 2/144, Mount Rd., Madras 600006.

Qantas Airways Ltd., Connemara Hotel, Madras 600006.

Singapore Airlines, 36-D, Mount Rd., Madras 600002.

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Chem-Med Analytical Laboratories, 5-6-7, Kakad Estate, Seaface Rd., Worli, Bombay 400018.

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talab Pvt. Ltd., 15, C. Patel St., Bombay 400001.

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Regional Testing Laboratory, Ind. Estate, K. Pudur, Madurai 625007.

hriram Test House, 19, Univ. Rd., Delhi 110007.

ri Ganeshram's Analytical Laboratories, 51, Thambu Chetty St., Madras 600001.

herapeutics Chemical Research Corpn., 95, Ansari Mrg., Byculla, Bombay 400008.

niversal Research & Analytical Laboratories, Aman Chambers, 113, New Queen's Rd., Bombay 400004.

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Bieri Pvt. Ltd., Near Bus Terminus, Sion, Bombay 400022.

J. Nagardas & Co., 55, Canning St., Calcutta 700001.

KIV Group Ind., Sun Mill Comp., Lower Parel, Bombay 400013.

Madhab & Co., 54/1, BRBB Rd., Calcutta 700001.

New India Name Platers & Anodisers, A-103, Phase II, Mayapuri, New Delhi 110064.

Pratima Anodiser, 73, Mun. Ind. Estate, Off Dr. E. Moses Rd., Gandhinagar, Worli, Bombay 400018.

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Chowringhee Sales Bureau Pvt. Ltd., 24-B, Park St., Calcutta 700016.

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*Allahabad Bank, 14, India Exchange Place, Calcutta 700001.

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Andhra Bank Ltd., Sultan Bazar, Hyderabad 500001.

Bank of America, Express Towers, Nariman Point, Bombay 400021.

*Bank of Baroda, Mandvi, Vadodara 390001.

*Bank of India, 70-80, M. Gandhi Rd., Bombay 400023.

ank of Madura Ltd., Madurai 625001. (T. Nadu).

*Bank of Maharashtra, 1177, Budhwar Peth, Pune 411002.

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Banque National De Paris (French Bank), 62, Homji St., Bombay 400001.

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British Bank of the Middle East, 16, Veer Nariman Rd., Bombay 400023.

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Offices outside the U.S.A. in 96 countries.

Supervision in India :

Mr. V. J. Menezes, Vice-President, Air India Building (9th Floor), Nariman Point, Bombay 400 021.
Phones : 232221, 231545, 231620, 231772.
World Corporate Group : Country Head — Ms. A. Shusta, Assistant Vice-President, Air India Building (19th Floor), Nariman Point, Bombay 400 021.
Phones : 232221, 231783, 231416.
Local Corporate Group : Country Head — Mr. V. J. Menezes, Vice-President, Air India Building (9th Floor), Nariman Point, Bombay 400 021.
Phones : 232221, 231589, 231416.
Mr. N. G. Pamnani, Assistant Vice-President (Senior Operations Officer in the Country), Air India Building (9th Floor), Nariman Point, Bombay 400 021.

Banking Operations at Branches :

Bombay : 293, Dr. Dadabhai Naoroji Road, Bombay 400 001. Phone : 263131.
Grams : " CITIBANK ". Telex : 2288. P.O. Box 175.
Manager: Mr. Janak Raj, Assistant Vice-President
Also at : Air India Building (Ground Floor) Nariman Point, Bombay 400 021.
New Delhi : 3, Parliament Street, New Delh 110 001. Phone : 311116. Grams : " CITIBANK " Telex : 2332, P.O. Box 520.
Manager : Mr. V. W. Khanna, Manager.
Calcutta : 43, Chowringhee Road, Calcutt 700 016. Phone : 431596/98. Grams : " CITIBANK ". Telex : 7040. P.O. Box 9028.
Manager : Mr. U. K. Ghosh, Assistant Vice President.
Also at : 9, Brabourne Road, Calcutta 700 001
Madras : 153, Mount Road, Madras 600 002 Phone : 810756. Grams: " CITIBANK "
Telex : 326. P.O. Box 2235.
Manager : Mr. V. Krishnakumar, Manager.

World Corporate Group Local Corporat Group operations at main cities :

Bombay : Mr. D. Ahuja, Assistant Vice-Presiden (LCG), Air India Building (19th Floor), Nari Point, Bombay 400 021. Phones : 232221, 231520 231589. Grams : " CITIBANK ".
New Delhi : Mr. K. Dasgupta, Assistant Vice President, Kailash Building, 3rd Floor, 2 Kasturba Gandhi Marg, New Delhi 110 001.
Phones : 43561, 40025. Grams : " CITIBANK "
Calcutta : Mr. R. Ubhayakar, Manager, 43 Chowringhee Road, Calcutta 700 016. Phone 431596/98. Grams : " CITIBANK ". Telex : 2
P.O. Box 9028.
Madras : Mr. S. Srikanth, Manager, 153, Moun Road, Madras 600 002. Phone : 810756.
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(a) Paid-up Capital as on 31.12.1977 Rs. 5,62,50,000

(b) Reserve Fund and Other Reserves as on 31.12.1977 Rs. 118,22,75,052

LOCAL HEAD OFFICES

Calcutta/Bombay/Madras/New Delhi/Kanpur/Ahmedabad/
[illegible]

FOREIGN OFFICES

U.K.

LONDON Clements House, 14/18, Gresham Street, London EC2P 2JP, U.K.
GOLDERS GREEN 630, Finchley Road, Golders Green, London NW 11, U.K.
WEST END Cavendish House, 10/12, Clifford Street, London W1 [illegible], U.K.
SOUTHALL King's House, The Green, Southall, Middlesex, London, U.K.

U.S.A.

NEW YORK 460, Park Avenue, New York, N.Y. 10022 U.S.A.
CHICAGO 19 South La Salle Street, Chicago, [illegible] U.S.A.
LOS ANGELES (Agency) [illegible] United California Building, 707 [illegible] Boulevard, Los Angeles, [illegible] U.S.A.

SRI LANKA

COLOMBO 16, Sir Baron Jayatilaka Mawatha, Colombo 1, Sri Lanka.

W. GERMANY

FRANKFURT Goethestrasse 26-28, 6, Frankfurt (Main), West Germany.

BANGLADESH

DACCA 24-25, Dilkusha Commercial Area, Dacca-2, Bangladesh.

REPUBLIC OF MALDIVES

MALÉ Marine Drive, Malé Republic of Maldives.

OFFSHORE OFFICES

BAHAMAS

NASSAU P.O. Box No. 4869 West Bay Street, Nassau, N.P. Bahamas

BAHRAIN

MANAMA Al Fateh Building, 3rd floor, Al Khalifa Road, P.O. Box No. 5466, Manama, Bahrain.

SINGAPORE Podium 53C, Development Bank of Singapore Building, 6 Shenton Way, Singapore

REPRESENTATIVE OFFICES

LEBANON

BEIRUT Arab Bank Building, 5th Floor, Riad El-Solh Street, P.O. Box [illegible], Beirut, Lebanon.

PHILIPPINES

MANILA [illegible]

CANADA

TORONTO Post Box-81, Royal Bank Plaza, Toronto, Ontario, Canada.
VANCOUVER 1007/750, West Pender Street, Vancouver BC V6C 2T8, Canada.

IRAN

TEHRAN 55 Kakh Shomali, Tehran, Iran.

JAPAN

TOKYO Suite No. 919, Togin Building, 4-2, Marunochi-1 Chome, Chiyoda-ku, Tokyo-100, Japan.

EGYPT

CAIRO Apartment No. 6, First Floor, 15, Kamel El Shennawy Street, Cairo, Arab Republic of Egypt.

Total Number of Offices: 4,682 as on 31st December 1977

CHAIRMAN: Shri P.C.D. NAMBIAR
MANAGING DIRECTOR: Shri V.S. NATARAJAN

Names of Associate Banks

State Bank of Bikaner & Jaipur/State Bank of Hyderabad/State Bank of Indore/State Bank of Mysore/State Bank of Patiala/State Bank of Saurashtra/State Bank of Travancore

Total number of offices of Associate Banks: 2,157 as on 31st December 1977.

State Bank

* Canara Bank, Canara Bank Bldg., 112, Jayachamarajendra Rd., Bangalore 560002.

* Central Bank of India, Chander Mukhi Bldg., Nariman Point, Bombay 400021.

Chartered Bank, 25, M. Gandhi Rd., Bombay 400023.

Citibank N. A., Air India Bldg., 9th Flr., Nariman Point, Bombay 400021.

Corporation Bank Ltd., Mangalore 575001.

* Dena Bank, Devkaran Nanjee Bldg., 17, Horniman Circle, Bombay 400023.

Federal Bank Ltd., Alwaye 683101. (Kerala)

Grindlays Bank Ltd., 90, M. Gandhi Rd., Bombay 400023.

* Indian Bank, 17, North Beach Rd., Madras 600001.

* Indian Overseas Bank, 151, Mount Rd., Madras 600002.

Maharashtra State Co-op. Bank Ltd., 9, Bakehouse Lane, Bombay 400001.

Mercantile Bank Ltd., 52/60, M. Gandhi Rd., Bombay 400023.

Mitsui Bank Ltd., 6, Wallace St., Bombay 400001.

* Punjab National Bank, Parliament St., New Delhi 110001.

Punjab & Sind Bank Ltd., B45/47, Connaught Place, New Delhi 110001.

South Indian Bank Ltd., Trichur 680001 (Kerala).

State Bank of India, New Adm. Bldg., Madame Cama Rd., Bombay 400021.

* Syndicate Bank, Manipal 576119 (Karnataka).

* Union Bank of India, Union Bank Bldg., Bombay Samachar Mrg., Bombay 400001.

* United Bank of India, 16, Old Court House St., Calcutta 700001.

* United Commercial Bank, 10, Brabourne Rd., Calcutta 700001.

Vijaya Bank Ltd., 2, Residency Rd., Bangalore 560025.

Vysya Bank Ltd., Avenue Rd., Bangalore 560002.

BLOCK MAKERS

Adwell, Krishna Bhavan, 11, Bhuleshwar Rd., Near Cotton Exchange, Bombay 400002.

Bombay Art Printers, Near Safed Pul, Kurla-Andheri Rd., Bombay 400072.

Bombay Process Studio, Crescent Chambers, Tamarind Lane, Bombay 400023.

Bharat Studio, 109, Mount Rd., Madras 600018.

Commercial Art Engravers Pvt. Ltd., Sane Guruji Premises, 386, V. Savarkar Marg, Bombay 400025.

Express Block & Engraving Studios Pvt. Ltd., Mustafa Bldg., Sir P. Mehta Rd., Bombay 400001.

National Blocks, 356, Girgaum Rd., Bombay 400002.

Novelty Process Studio, 17, Khambata Lane, Khetwadi Back Rd., Bombay 400004.

Rapid Process Works, 306, Kalbadevi Rd., Kakad Market, Bombay 400002.

Rexen Free, Process Block Makers, 3, State Bank St., (Opp Midland) Mount Rd., Madras 600002.

Salian Brothers, 161, Bora Bazar St., Bombay 400001.

Solar Process Studio, 22, Apollo St., Bombay 400023.

Sun Process Works, 8, Swadeshi Mills Comp., Tata Rd., Off New Queen's Rd., Bombay 400004.

The Times of India Press, Dr. D. N. Rd., Bombay 400001.

BUILDING SPECIALISTS

CONTRACTORS

Andhra Pradesh

Allied Construction Co., 6-3-898, Somajiguda, Hyderabad 500001.

Associated Engg. Enterprise, 10, Venkateswara Colony, Narayanaguda, Hyderabad 500001.

Lachhman Singh & Bros., 3-6-361/6, Himayatnagar, Hyderabad 500029.

Premier Construction Co., 20, Lalbahadur Stadium, Hyderabad 500001.

S. Ramachandra Reddy & Co., 1-2-303-G, Mahal Rd., Hyderabad 500001.

Udani Engg. Co. Pvt. Ltd., 1-1-269, Chikadpally, Hyderabad 500001.

Assam

S. C. Das & Co., D. C. Barucha Rd., Tarajan, Jorhat 785001.

Santnath Construction, Kamar Chubari, Tezpur 784001.

Bihar

G. S. Atwal & Co. (Engg.) Pvt. Ltd., Bokaro Steel City 827011.

Chandigarh

Chandigarh Construction Co., 204, Sector 9 C., Chandigarh 160017.

Kundan Lal & Sons, 52, Sector 28 A., Chandigarh 160017.

Uttam Singh Duggal & Co., 244, Sector 9 C., Chandigarh 160017.

Gujarat

Jagdish Shah & Co., Ashok Niwas, Near Tower, Navsari 396445.

N. Kunwerji & Co., Kum Kum, Laxmiwadi, Main Rd.. Rajkot 360001.

Paramount Constructions, Opp. Mandvi, Vadodara 390001.

Sayaji Iron & Engg. Co. Pvt. Ltd., Chhani Rd., Vadodara 390002.

Karnataka

Ferro Concrete Co. of India, Behind I.O.C. Petrol Pump, Saundatti, Belgaum 590001.

Structocrates, 4, 12th Cross, Malleswaram, Bangalore 560003.

Maharashtra

Ajgaonker & Co., 24, Abhijit College St., Bombay 400028.

Amul Construction Co., 279, Old Ravivar Peth, Pune 411002.

Arun Construction Co., Sunder Baug, Mathuradas Rd., Bombay 400067.

Associated Construction Co., 227-F. Kalbadevi Rd., Bombay 400002.

Bagadia Construction Co., 356, Budhwar Peth, Pune 411002.

Bharat Construction, 71, Kamathipura 3rd Lane, Bombay 400008.

Bombay Builders Co. Pvt. Ltd., Mahendra Chambers (Empire Bldg.), 134, Dr. D. N. Rd., Bombay 400001.

Eapen Verghese & Co., 38, Super Shopping Centre, S. Vivekanand Rd., Andheri, Bombay 400058.

Haribhai Estates Pvt. Ltd., Maker Bhavan No. 1, New Marine Lines, Bombay 400020.

Indian Prestress Corpn., 101, M. Gandhi Rd., Bombay 400023.

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Total houses built including those under construction for all income groups:

Income groups	*No. of houses*
Economically Weaker Section ..	6,000
Low Income Group	5,210
Middle Income Group	2,300
Higher Income Group	500
Total ..	14,010

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Telephones : 232420 & 232481.

Industrial Engineers, People's Bldg., Sir P. M. Rd., Bombay 400001.
Jai Hind Construction Corpn., 1117, Ali Lakaki Rd., Pune 411002.
Jolly & Maker Pvt. Ltd., 222, Nariman Point, Bombay 400020.
Jolly Bros. Pvt. Ltd., Lakshmi Insurance Bldg., Sir P. Mehta Rd., Bombay 400001.
Jyoti Construction Co., 32/34, Dhanji St., Bombay 400003.
Khandelwal Builders Pvt. Ltd., Khandelwal House, Linking Rd., Malad West, Bombay 400064.
Levka Pvt. Ltd., Sleater Rd., Bombay 400007.
National Asphalt Products & Construction Co., Hill View, Mahul Rd., Chembur, Bombay 400074.
Nenshi Monji, 123, M. Gandhi Rd., Bombay 400023.
Patel Construction Co., Laxmi Nivas, Hanuman Rd., Bombay 400057.
Popular Construction Co., 37, Tagore Rd., Bombay 400054.
Pressure Piling Co. India Pvt. Ltd., Savoy Chambers, Wallace St., Bombay 400001.
Project Engineers, Shree Ram Indl. Estate, Katrak Rd., Bombay 400031.
Rajesh Construction, Zendi Gate, 1887, Kabir House, A-Nagar, Ahmednagar 414001.
Rajnikant & Co., 226, 2nd Kumbharwada, Bombay 400004.
S. Varma Construction, 330, Hind Rajasthan Bldg., D. S. Phalke Rd., Bombay 400014.
Shah Builders, 403, S. V. Patel Rd., Camp, Pune 411001.
Shah Construction Co. Ltd., Shah House, Shivsagar Estate, Dr. A. Besant Rd., Bombay 400018.
Shapoorji Pallonji & Co. Pvt. Ltd., New India Centre, 11th Flr., Madame Cama Rd., Bombay 400039.
Space Builders Pvt. Ltd., Jyoti Chambers, N. Natha St., Bombay 400009.
Vazifdar Builders Pvt. Ltd., Corinthian, Arthur Bunder Rd., Bombay 400005.

Meghalaya

Stephens Belle & Co., Warjri Lodge, Malki, Shillong 793001.
Harcharan Singh & Co., Prof. Swell Rd., Nongthymmai, Shillong 793001.

Rajasthan

Chopra Ranka & Associates, 429/3, Raja Park, Jaipur 302001.
Gadhoke Construction Co., 4, Manu Marg, Alwar 301001.
Moti Construction Co., Moti Bhavan, Neeti Marg, Ajmer 305001.

Tamil Nadu

Albis Engg. Co., 6, S. Mohammed Rd., Madras 600006.
E. I. D. Parry Ltd., Dare House, Madras 600001.
East Coast Constructions & Inds., 1, Moores Rd., Madras 600006.
Eimco-K.C.P. Ltd., Ramakrishna Bldg., 38, Mount Rd., Madras 600002.
Engg. and Commercial Agencies, 4, Smith Rd., Madras 600002.
Engg. Enterprises, 3, Ganesh St., Madras 600006.
Essar Construction & Carriers Ltd., 306, T. Chetty St., Madras 600001.
Gladston Lyall & Co. Ltd., 108, Mount Rd., Madras 600018.
Simplex Concrete Piles (I) Pvt. Ltd., 17, Casa Major Rd., Egmore, Madras 600008.
Southern Engg. & Construction Co., 39, Bhagirathi Ammal St., Madras 600017.
Tarapore & Co., 175/1 Mount Rd., Madras 600002.
Wilson & Co. Pvt. Ltd., Chordia Mansions, 105A/2, Mount Rd., Madras 600002.

Uttar Pradesh

All India Construction Co., 123, North Vijayanagar Colony, Agra 282001.
Bhatia Bros., 124 B/1, Bhatia Bhavan, Govind Nagar, Kanpur 208006.
D. S. Enterprises, Yadav Bhavan, Arya Nagar, Lucknow 226001.
Inder Nath & Co., Hing Ki Mandi Crossing, Agra 282001.
Jagdish & Co., 8/11, Arya Nagar, Kanpur 208001.
Jain Bros., Mitra Bhavan, Prempuri, Meerut 250001.
Pahuja Builders, 112 A. Lukergunj, Allahabad 211001.
Radhey Shiam & Co., Lala Ka Bazar, Meerut City 250001.
Singal & Associates, C-60 Bardwaj Palli, J. Bahadur Rd., Allahabad 211001.
Vijay Construction Co., 127, Anandpuri, Meerut City 250001.

West Bengal

Ajit Kumar Nayak & Co., 14, Natabar Dutta Row, Calcutta 700012.
Daw Mittra & Co., 5 & 6, Hare St., Calcutta 700001.
Kumar Narayan Pvt. Ltd., 28, Southern Ave., Calcutta 700026.
Prakash & Prakash, 5 & 6, Fancy Lane, Calcutta 700001.
Prestressed Concrete & Shellroofs Pvt. Ltd., 10A, Harrington St., Calcutta 700016.

CONTRACTORS FOR GUNITE, GROUTING & COLLOIDAL CONCRETE

Bombay

Cementation Co. Ltd., Steelcrete House, D. Vachha Rd., Bombay 400020.
John Fleming & Co. Pvt. Ltd., 21, Bastion Rd., Bombay 400001.
Shah Construction Co. Ltd., Shah House, Dr. A. Besant Rd., Bombay 400018.

Calcutta

Cementation Co. Ltd., 5, Chowringhee Approach, Calcutta 700013.
Consolidated Pneumatic Tools Co. Ltd., 30, J. L. Nehru Rd., Calcutta 700016.
Heatly & Gresham (India) Ltd., 31, Chittaranjan Ave., Calcutta 700012.
Hindustan Construction Co. Ltd., 9, Syed A. Ali Ave., Calcutta 700017.
Mukherjee Bros., 1B, N. Mitra Row, Calcutta 700002.
Patel Engg. Co. Ltd., 3, Esplanade East, Calcutta 700001.

Madras

Gannon Dunkerley & Co. (Madras) Ltd., 337, Thambu Chetty St., Madras 600001.

PILING CONTRACTORS

Maharashtra

Foundation Corpn. of India, Meher House, 15, C. Patel St., Bombay 400001.
Pressure Piling Co. (India) Pvt. Ltd., Savoy Chambers, Wallace St., Bombay 400001.
Sewri Engg. Construction Co. Pvt. Ltd., Savoy Chambers, Wallace St., Bombay 400001.

Tamil Nadu

Coromandel Engg. Co., 52/53, Jehangir St., Madras 600001.

West Bengal

Central Engg. Syndicate, 32, G. Chandra Ave., Calcutta 700013.

Gammon India Ltd., 19, P. Barua Sarani, Calcutta 700019.

Simplex Concrete Piles (India) Pvt. Ltd., Simplex House, P-1, Transport Depot Rd., Calcutta 700027.

PRESTRESSED CONCRETE SPECIALISTS

Assam

Bridge & Bldg. Corporation Pvt. Ltd., G.S. Rd., Ulubari, Gauhati 781001.

Bihar

Bhasin Construction Co. Pvt. Ltd., Blessington House, Kanke Rd., Ranchi 834001.

Bihar Prestressing Pvt. Ltd., 6, Beatson Rd., Bhagalpur 812001.

Hindustan Concrete & Allied Ind., Krishna Chowk, Station Rd., Patna 800001.

Delhi

Hindustan Housing Factory Ltd., Jangpura, New Delhi 110014.

Gujarat

Manibhai & Brothers, 28, N. B. K. Society, Anand 388001.

Karnataka

Indo-Swiss Corpn., 12, Palace Rd., Bangalore 560052.

Maharashtra

Gammon India Ltd., Gammon House, V. Savarkar Marg, Prabhadevi, Bombay 400025.

Hindustan Construction Co. Ltd., Construction House, Ballard Estate, Bombay 400038.

Indian Prestress Corpn., 101, M. Gandhi Rd., Bombay 400023.

Kayjay Engineers, 123, M. Gandhi Rd., Bombay 400023.

Killick Nixon & Co. Ltd., 31, Murzban Rd., Bombay 400001.

M. M. Bilaney & Co., 140, Medows St., Bombay 400023.

Patel Engg. Co. Ltd., Jogeshwari Estate, S. Vivekanand Rd., Jogeshwari, Bombay 400060.

Prestressing Corpn. of India, Vishwa 52, Sion West, Bombay 400022.

S. B. Joshi & Co., Examiner Press Bldg., 35, Dalal St., Bombay 400023.

Sewri Engg. Construction Co. Pvt. Ltd., Savoy Chambers, Wallace St., Bombay 400001.

Shah Construction Co. Ltd., Shah House, Dr. A. Besant Rd., Bombay 400018.

Shroff & Tembe, Prospect Chambers, Dr. D. N. Rd., Bombay 400023.

Stup (India) Ltd., Advent, J. Bhonsle Mrg., Bombay 400020.

Vakil-Mehta-Parikh-Sheth, Apeejay House, Forbes St., Bombay 400001.

Orissa

Orissa Concrete Products Ltd., Bhubaneswar Rd., Bhubaneswar 751001.

Orissa Construction Corpn. Ltd., Gopabandhu Nagar, Unit 8, Bhubaneswar 751003.

Tamil Nadu

Gannon Dunkerley & Co. (Madras) Pvt. Ltd., 337, Thamb Chetty St., Madras 600001.

Prestressed Concrete Co. (South India) Pvt. Ltd., Lloyds Rd., Madras 600014.

West Bengal

B. K. Banerjee & Associates, 14-A, N. Banerjee Rd., Calcutta 700013.

Bridge & Bldg. Construction Co. Pvt. Ltd., 90-A, S. P. Mukherjee Rd., Calcutta 700026.

Chanda Engineers (India) Ltd., 21, Princep St., Calcutta 700013.

Civcon, 21A, Shakespeare Sarani, Calcutta 700017.

Consultant Group, 11, Old Post Office St., Calcutta 700001.

Ghosh, Bose & Associates, 8, Hochin Minh Sarani, Calcutta 700016.

Hind Constructions & Engg. Co. Ltd., 9, Brabourne Rd., Calcutta 700001.

Kuljian Corpn. (India) Pvt. Ltd., 24-B, Park St., Calcutta 700016.

Simplex Concrete Piles (India) Pvt. Ltd., Simplex House, P-1, Transport Depot Rd., Calcutta 700027.

Stresscon Engg. Co. Pvt. Ltd., 13-C, Deodar St., Calcutta 700019.

Structures Pvt. Ltd., 58, Kedar Bose Lane, Calcutta 700025.

SHELL ROOF SPECIALISTS

Andhra Pradesh

Andhra Civil Construction Co., Uppal, Hyderabad 500009.

Udani Engg. Co., 1-8-27/19, Chikkadpally, Hyderabad 500020.

Bihar

Bhasin Construction Co. Ltd., Blessington House, Kanke Rd., Ranchi 834001.

Delhi

Teja Singh & Associates, 65/26, Guru Gobind Singh Mrg., New Delhi 110005.

Tirath Ram Ahuja Pvt. Ltd., 11, Friends Colony, New Delhi 110014.

Gujarat

Vakil — Mehta — Parikh — Sheths, Khamasa Gate, Ahmedabad 380001.

Maharashtra

Argon Engineers, 7, Kamal Mansion, Arthur Bunder Rd., Colaba, Bombay 400005.

Bharat Builders, Dhun Bldg., 23/25, Gogha St., Bombay 400001.

Builders' Associates, 381, Dr. D. Naoroji Rd., Bombay 400001.

Designer's Pvt. Ltd., 91-A, Walkeshwar Rd., Bombay 400006.

Gammon India Ltd., Gammon House, V. Savarkar Marg, Prabhadevi, Bombay 400025.

Gannon Dunkerley & Co. Ltd., Chartered Bank Bldg., M. Gandhi Rd., Bombay 400023.

Jolly Brothers Pvt. Ltd., Laxmi Insurance Bldg., Sir P. Mehta Rd., Bombay 400001.

M. M. Bilaney & Co., 14, Medows St., Bombay 40

Shah Construction Co. Ltd., Shah House, Dr. A. Besant Rd., Bombay 400018.

Uttar Pradesh

N. K. Agarwal & Associates, 15/88, Civil Lines, Kanpur 208001.

West Bengal

B. K. Banerjee & Associates, 14-A, S. N. Banerjee Rd., Calcutta 700013.

B. K. Dhar Pvt. Ltd., 6, K. S. Roy Rd., Calcutta 700001.

Consultant Group, 11, Old Post Office St., Calcutta 700001.

Engineers Consortium, 56, Gariahat Rd., Calcutta 700019.

Hindustan Construction & Engg. Co. Ltd., 9, Brabourne Rd., Calcutta 700001.

National Construction Corpn., 14, N. Subhas Rd., Calcutta 700001.

Prestressed Concrete & Shell Roofs Pvt. Ltd., 10-A, Harrington St., Calcutta 700016.

BUSINESS REPRESENTATIVES

Larry Grant Communication, 14A, Strand House, 1st Flr., Opp. Strand Cinema, Colaba, Bombay 400005.

CLEARING & FORWARDING AGENTS

Delhi

Chanson Shipping & Packing Co. Pvt. Ltd., Chanson House, E-56, Greater Kailash I, New Delhi 110048.

D. M. Holmes & Co., 3, Faiz Rd., New Delhi 110005.

Packways Pvt. Ltd., D 104, Panchsheel Enclave, N. Delhi 110017.

Goa

Agencia Geral Pvt. Ltd., P.O. Box 15, Vasco da Gama 403802.

Chowgule Bros., Marmugao Harbour 403803.

Hiralal & Co., ' Thakker House ', Vasco Da Gama 403802.

Maharashtra

A. M. Sodder & Co., 11, Bank St., Bombay 400023.

A. V. John & Co., Yashodhan, Gokhale Rd., Thane 400601.

Artlee & Co., 130, Apollo St., Bombay 400023

B. C. Buhariwala & Sons, 5, Graham Rd., Ballard Estate, Bombay 400038.

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Hindustan Malleables & Forgings Ltd., Jalan Nagar, P.O. Bhuli 828104, Dhanbad Dist. (Bihar).

Indrajit Industries, 10, Kurla Industrial Estate, Ghatkopar, Bombay 400086.

Isha Heat Treatment, Agra Rd., Vikhroli, Bombay 400083.

Jijo Inds., 29, Pratap Singh Ind. Estate, LBS Mrg., Bombay 400078.

Micro Steel Treatments, B-79, Rd. No. 21, Wagle Ind. Estate, Thane 400604.

Precision Moulds & Dies, E-24, Conn. Place, New Delhi 110001.

Precision Thermo Process Ind., B-12, Nanddham Ind. Estate, Marol Rd., Andheri East, Bombay 400059.

Sahu Metal Engrs., Sadan, 40/C, Off Pedder Rd., Bombay 400026.

Siyaram-Kumar Engg. Works Pvt. Ltd., 45, Shivaji Mrg., New Delhi 110015.

Treatwel Inds., A-5, Giriraj Ind. Estate, Mahakali Rd., Chakala, Andheri East, Bombay 400093.

United Engg. Works, Ashok Silk Mill Lane, Off L.B.S Mrg., Ghatkopar, Bombay 400086.

Yatin Industronics, 206, Gokul, 80-A, Baroda St., Bombay 400009.

HOSPITALS—BOMBAY

Acworth Leprosy Hospital, Wadala, Bombay 400031.

B. Nanavati Hospital, S. Vivekanand Rd., Vile Parle, Bombay 400056.

B. C. J. Santa Cruz Gen. Hospital, S. Vivekanand Rd., Bombay 400054.

B. Y. L. Nair Hospital, Nr. Bombay Central Rly. Stn., Bombay 400008.

Bai Jerbai Wadia Hospital for Children, Acharya Donde Marg, Bombay 400012.

Bhatia General Hospital, Chikalwadi, J. Dadajee Rd., Bombay 400007.

Bombay Port Trust Hospital, Antop Hill Rd., Bombay 400031.

Breach Candy Hospital & Nursing Home, 60, B. Desai Rd., Bombay 400026.

Cama & Albless Hospital, Mahapalika Marg, Bombay 400001.

Charak Clinic (Dr. Cooper's), 21, Karve Rd., Bombay 400004.

Children's Orthopaedic Hospital. Haji Ali Park, K. Khade Marg, Bombay 400011.

Dharamdas Samaldas Kothari Public Health Centre, Kamala Kutir, C. P. Tank Rd., Bombay 400004.

Dr. Bacha's Memorial Belle-vue Nursing Home, La Citadelle, M. Karve Rd., Bombay 400020.

Dr. Bhajekar Municipal Gen. Hospital, Dr. Bhajekar St., Bombay 400004.

Dr. R. N. Cooper Mun. Gen. Hospital, Juhu, Vile Parle (W), Bombay 400056.

Eye Hospital, 375, Dr. D. Naoroji Rd., Bombay 400001.

G. T. Hospital, Tilak Rd., Bombay 400001.

Group of T. B. Hospitals, Sewri, Bombay 400015.

Habib Hospital & Rehmethai Maternity Home, 125, Jail Rd. (E), Bombay 400009.

Haji Bachooali Free Ophthalmic Hospital, K. B. J. Merwanji St., Bombay 400012.

J. J. Group of Hospitals, J. J. Hosp. Comp., Bombay 400012.

Jaslok Hospital, 15G, Deshmukh Mrg., Bombay 400026.

Jerbai Wadia Hospital for Children, King Edward Rd., Bombay 400012.

K. B. Bhabha Hospital, Bandra, Bombay 400050.

K. B. Bhabha Hospital, Kurla, Bombay 400070.

K. E. M. Hospital, King Edward Rd., Bombay 400012.

Kasturba Hospital, Sane Guruji Marg, Bombay 400011.

Lokmanya Tilak Mun. Gen. Hospital, Sion, Bombay 400022.

Mahatma Gandhi Memorial Hospital, S. S. Rau Rd., Bombay 400012.

Mansadevi Tulsiram Mun. Gen. Hospital, Mulund, Bombay 400080.

Mental Hospital, Thane 400604.

Mother & Child Hospital, Gita Bldg., Ramabai Rd., Bombay 400007.

Municipal Eye Hospital, Kamathipura, Bombay 400008.

Municipal General Hospital, Rajawadi, Ghatkopar, Bombay 400077.

N. S. General Hospital, Thane 400604.

Nowrojee Wadia Maternity Hospital, King Edward Rd., Bombay 400012.

New Hospital for Women, M. Permanand Marg, Bombay 400004.

Osteopathic Clinic, Dunkeld, J. M. Mehta Rd., Bombay 400006.

Petit Bomanjee Dinshaw Parsee Gen. Hospital, B. Desai Rd., Bombay 400026.

Petit Sakarbai Dinsha Hospital for Animals, S. S. Rau Rd., Bombay 400012.

Radhibai Watumull Sanatorium, 120, Savarkar Marg, Bombay 400016.

Ram Kunvar Charitable Xray Inst., Dnayaneshwar Mandir Rd., Bombay 400002.

S. K. Patil Arogya Dham, Daftary Rd., Bombay 400064.

Saifee Hospital, 15, Karve Rd., Bombay 400004.

St. Georges Hospital, P. D'Mello Rd., Bombay 400001.

Seth A. J. Bankerbihari Mun. E.N.T. Hospital, Napier Rd., Bombay 400001.

Sir Hurkisondas Nurrotumdas Hospital, Prarthnasamaj, Bombay 400004.

Suchak's Maternity & General Hospital, Dr. Mrs. Manchubhai Rd., Bombay 400064.

Tata Memorial Hospital, Hospital Ave., Bombay 400012.

HOSPITALS—CALCUTTA

Balananda Brahmachari Sabayatan, 105/2, Raja D St., Calcutta 700006.

Behala Hospital, 455, Diamond Harbour Rd., Calcutta 700034.

Calcutta Chest Hospital, 84, Acharya J. C. Bose Rd., Calcutta 700014.

Calcutta Gujarati Dawakhana, 8, Radha Bazar Lane, Calcutta 700001.

Calcutta Hospitals & Medical Research Institute, 7/2, D.H. Rd., Calcutta 700027.

Calcutta Voluntary Hospital, 145A, S. Bose Rd., Calcutta 700026.

Dr. R. Ahmed Dental College & Hospital, 114, Lower Circular Rd., Calcutta 700014.

Dum Dum Municipal Maternity Hospital, Dum Dum, Calcutta 700028.

Imambara Sadar Hospital, Chinsurah, Hooghly.

Kumup Sankar Ray T. B. Hospital, Jadavpur, Calcutta 700032.

M. N. Chatterjee Memorial Eye Hospital, 295/1, Acharya P. Chander Rd., Calcutta 700009.

Marwari Relief Society Hospital, 392, U. Chitpur Rd., Calcutta 700007.

Matri Mangal Pratisthan, 51, U. Chitpur Rd., Calcutta 700007.

Mohananda Brahmachari Sebayatan, 22A, Shib Kristo Daw Lane, Calcutta 700011.

Nilratan Sirkar Medical College, 138, Lower Circular Rd., Calcutta 700017.

North Howrah Hospital, 22, Guha Rd., Ghusuri, Howrah.

Paschim Banga Samaj Seva Samity, Baranagar Hospital, 282, Madjid Bari Lane, Calcutta 700035.

Shri Lakshminarayan Trust Maternity Home & Hospital, 4, Justice C. Madhab Rd., Calcutta 700020.

Sree Balaram Seva Mandir, Khardah, 24 Parganas.

Sri Balananda Brahmachari Matri Sevasadan, 455, Diamond Harbour Rd., Calcutta 700034.

HOSPITALS—DELHI

Agarwal's Eye Institute, 15, Darya Ganj, New Delhi 110002.

All India Blind Relief Society, F2, Lajpat Nagar, New Delhi 110024.

Anhais General Nursing Home, E. Park Rd., New Delhi 110005.

Aryavarta Polio Ashram, Aryavarta Bhavan, 79E, Kirti Nagar, New Delhi 110015.

Ayurvedic & Unani Tibbia Coll. Hospital, Karol Bagh, New Delhi 110005.

Balak Ram Hospital, 130, Timarpur, New Delhi 11

Banerji Nursing Home, Ansari Rd., 23, Darya Ganj, New Delhi 110002.

Cantt. General Hospital, Delhi Cantt. 110010.

Charak Clinic, Ansari Rd., Darya Ganj, New Delhi 1

Chawla Hospital, Bara Tooti, Sadar Bazar, New Delhi 110006.

Children's Clinic, B64, Defence Colony, New Delhi 1

Delhi Child Health Centre, Fountain View, B. Ram Rd., 24, Darya Ganj, New Delhi 110002.

Delhi Clinic Maternity & Surgical Nursing Home, 1 Kamla Nagar, New Delhi 110007.

Delhi Maternity Hospital, Sadhu V. Marg, New Delhi 110005.

Delhi Mental Health Clinic, F67, Bhagat Singh Mkt., New Delhi 110001.

Delhi Nursing & Maternity Home, 1, Ansari Rd., Darya Ganj, New Delhi 110002.

Deshraj Maternity Hospital, 77, Darya Ganj, New Delhi 110002.

Diwanchand Awal Nursing Home, 2, Jain Mandir Rd., New Delhi 110001.

Dr. Bhatia's Nursing Home, 19B, Ansari Rd., Delhi 110006.

Dr. Joshi's Pvt. Hospital, Krishna Lodge, New Delhi 110005.

Dr. Kedarnath Sharma's Nursing Home, 1, Doctor's Lane, New Delhi 110001

Dr. Luthra's Hospital, 15A/14, Ajmal Khan Rd., Karol Bagh, New Delhi 110005.

Dr. Mallick's Maternity & Nursing Home, F4/2, M. Town, New Delhi 110009.

Dr. Oberai's Sanjiwan Hospital, 2290, A. Samaj Rd., New Delhi 110005.

Dr. Sen's Nursing Home, Tilak Bridge, New Delhi 110001.

Dr. Sharma's Nature Cure Hospital, Opp. Masjid Dispensary, Delhi 110006.

Dr. Sharma's Nursing Home, A19, G. Kailash, New Delhi 110048.

Dr. Soni's Clinic, B26, NDSE, Part II, New Delhi 110049.

Dr. Talwar's Nursing Home, 11/5B, Sadhu V. Marg, New Delhi 110005.

Dr. Vohra's Nursing Home, Rajouri Garden, New Delhi 110027.

Ear, Nose & Throat Clinic, C148, Defence Colony, New Delhi 110003.

Family Clinic & Maternity Home, 2286, Gurudwara Rd., Karol Bagh, New Delhi 110005.

Govind Ballabh Pant Hospital, J. L. Nehru Marg, New Delhi 110001.

Hamdard Research Clinic & Nursing Home, 2/3A, A. Ali Rd., New Delhi 110001.

Hemraj Jain Hospital, Bara Tooti, Delhi 110006.

Hemraj Jain Nursing Home, P. Dhiraj, Delhi 110006.

Hindu Rao Hospital, Subzi Mandi, New Delhi 110007.

Hospital for Mental Diseases, Shahdara, Delhi 110032.

Infectious Diseases Hospital, Kingsway, New Delhi 110009.

Irwin Hospital, New Delhi 110001.

Jeewan Hospital, Jeewan Nagar, New Delhi 110014.

Jeewan Hospital Nursing Home, 67/1, Rohtak Rd., New Delhi 110005.

Jeewan Nursing Home, 2, Sadhu V. Marg, New Delhi 110005.

Kalavati Saran Children Hospital, Bgla. Sabh Marg, New Delhi 110001.

Kingsway Maternity Hospital, Hudson Lines, Kingsway, New Delhi 110009.

Krishna Nursing Home, 23, Khan Market, New Delhi 110003.

Lady Hardinge Medical College & Hospital, P. Kuin Rd., New Delhi 110001.

Lajpat Nagar Hospital, Laj Nagar, New Delhi 110024.

Leprosy Home, Taharpur, New Delhi 110032.

Majumdar Ayurvedic Clinic, H. Qazi, New Delhi 110006.

Moolchand Kharaitiram Hospital, Laj Nagar, New Delhi 110024.

Moti Nagar Hospital, Moti Nagar, New Delhi 110015.

Mrs. Girdhari Lal Maternity Hospital, J. L. Nehru Marg, New Delhi 110001.

Nature Cure Hospital, Jawahar Nagar, New Delhi 110007.

Navjeewan Clinic, 5/15, Ajmal Khan Rd., New Delhi 110005.

New Delhi Clinical Laboratory, E28 NDSE Part II, New Delhi 110049.

New Delhi Polyclinic, K35, Connaught Circus, New Delhi 110001.

New Delhi Tuberculosis Centre, J. L. Nehru Marg, New Delhi 110001.

Ortho Fracture Clinic, 13, N. Subash Marg, New Delhi 110006.

Orthopaedic & Trauma (Accident) Clinic, 71, Ring Rd., Laj Nagar III, New Delhi 110024.

Prem Hospital, Hari Masjid, Pahar Ganj, New Delhi 110055.

Puri Maternity & Nursing Home, 2/21, Roop Nagar, New Delhi 110007.

Rajasthan Surgical Nursing Home, Prabhat Market, New Delhi 110005.

Rajora Mission Hospital, 2906, S. R. Bazar, Delhi 110006.

Rana Nursing Home, JI/165, Rajouri Garden, New Delhi 110027.

Safdarjang Hospital, Safdarjang, New Delhi 110016.

Sahi Hospital, Mathura Rd., J. Pura, New Delhi 110014.

Sanghi's Nursing Home, C26, Green Park Extn., New Delhi 110016.

Sant Parmanand Blind Relief Mission, 18, Alipur Rd., Delhi 110006.

Sehgal's Nursing Home, B21, Kailash Colony, New Delhi 110048.

Sethi Maternity Nursing Home, 74F, Kamla Nagar, New Delhi 110007.

Shroff's Charity Eye Hospital, Darya Ganj, New Delhi 110002.

Shyam Lal Eye Hospital, Dina-ka-Talab, Malka Ganj, New Delhi 110007.

Silver Jubilee Tuberculosis Hospital, Kingsway Camp, New Delhi 110009.

Sir Gangaram Hospital, Raj Nagar, New Delhi 110060.

Sondhi Nursing Home, 82A, Kamla Nagar, New Delhi 110007.

Srivastava Nursing Home, 5/3, Roop Nagar, Delhi 110007.

St. Stephen's Hospital, Tis Hazari, Delhi 110006.

Sunder Lal Jain Charitable Eye Hospital, 26, Darya Ganj, Sadar Bazar, New Delhi 110002.

Swami Dayanand Hospital, Shahdara, New Delhi 110032.

Tilak Nagar Hospital, Tilak Nagar, New Delhi 110018.

Tirath Ram Shah Hospital & Nursing Home, Rajpur Rd., Delhi 110006.

Tuberculosis Hospital, Mehrauli, New Delhi 110030.

Verma Eye Clinic, 776C, Nr. Radhu Cinema, New Delhi 110032.

Veterinary Hospital, Qudsia Rd., Delhi 110006.

Veterinary Hospital, Tis Hazari, 110006.

Victoria Zanana Hospital, Darya Ganj, New Delhi 110002.

Willingdon Hospital, New Delhi 110001.

Worsley's Maternity Home & Clinic, 58, Darya Ganj, New Delhi 110002.

HOSPITALS—MADRAS

Arignar Anna Govt. Hosp. of Indigenous Medicine, Arumbakkam, Madras 600029.

E.S.I. Hospital, 37, Madhavakkam Tank Rd., Madras 600023.

Govt. Chest Inst. & T.B. Demo. & Trg. Centre, Spur Tank Rd., Madras 600031.

Govt. General Hospital, L. G. Nagar Rd., Madras 600002

Govt. Hospital for Women & Children, Egmore, Madras 600008.

Govt. Kasturba Gandhi Hospital for Women & Children, Madras 600005.

Govt. Kilpauk Medical College & Hosp., P.H. Rd., Madras 600010.

Govt. Royapettah Hospital, Madras 600014.

Govt. T.B. Sanatorium, Tambaram, Madras 400047.

Govt. Thiruvoteswarar T.B. Hospital, Konnur High Rd., Otteri, Madras 600012.

Inst. of Child Health & Hosp. for Children, Halls Rd., Madras 600008.

Raja Sir Ramaswamy Mudaliar's Lying-In Hospital, Kamraj Rd., Madras 600013.

Silver Jubilee Children's Clinic, 1, Jeenis Rd., Madras 600015.

Stanley Hospital, Old Jail St., Madras 600001.

Tamil Nadu Govt. Ophthalmic Hospital, Egmore, Madras 600008.

Tuberculosis & Chemotherapy Centre, Spur Tank Rd., Madras 600031.

HOTELS

(See also chapter on "Tourists' Guide").

Agra (Uttar Pradesh)
Agra Hotel, 165, Cantt.
Holiday Inn.
Hotel Clarks Shiraz, 54, Taj Rd.
Lauries Hotel, M. Gandhi Rd.

Ahmedabad (Gujarat)
Cama Hotels Ltd., Khanpur Rd.
Hotel Alankar, Opp. Rly. Station.
Hotel Capital, Mirzapur Rd.
Hotel Capri, Tilak Rd.
Natraj Hotel, Ashram Rd.
Ritz Hotel, Lal Darwaja.

Ahmednagar (Maharashtra)
Ashoka Tourist Hotel, King's Rd.

Allahabad (Uttar Pradesh)
Barnetts Hotel, 14, M. Gandhi Rd.

Almora (Uttar Pradesh)
Govt. Circuit House.

Ambala Cantt. (Haryana)
Standard Hotel, Railway Rd.

Amritsar (Punjab)
Hotel Airlines, Cooper Rd.

Aurangabad (Maharashtra)
Ajanta Ambassador Hotel.
Aurangabad Hotel.
Hotel Neelam.
Hotel Rama International.

Baroda (See Vadodara)

Bangalore (Karnataka)
Airlines Hotel, 4, Madras Bank Rd.
Barton Court, M. Gandhi Rd.
Berry's Hotel, 46-1, Church St., Off M. G. Rd.
Brindavan Hotel, 40, M. G. Rd.
Chamundi Hotel Pvt. Ltd., The Palace.
Hotel Ashoka, Kumara Park High Grounds.
Hotel Bangalore International, 2-A, 2-B, Crescent Rd High Grounds.
Hotel Broadway, 12, Kempe Gowda Rd.
Hotel Cauvery Continental, 11/37, Cunningham Rd.
Hotel Chalukya, 44, Race Course Rd.
Hotel Kamadhenu, Trinity Circle, M. Gandhi Rd.
Madras Woodlands Hotel, 5, Sampangi Tank Rd.
Palace Hotel, 3, Ali Askar Rd.
Shilton Hotel, St. Mark's Rd.
Victoria Hotel, 20/21, Residency Rd.
West End Hotel, Race Course Rd.

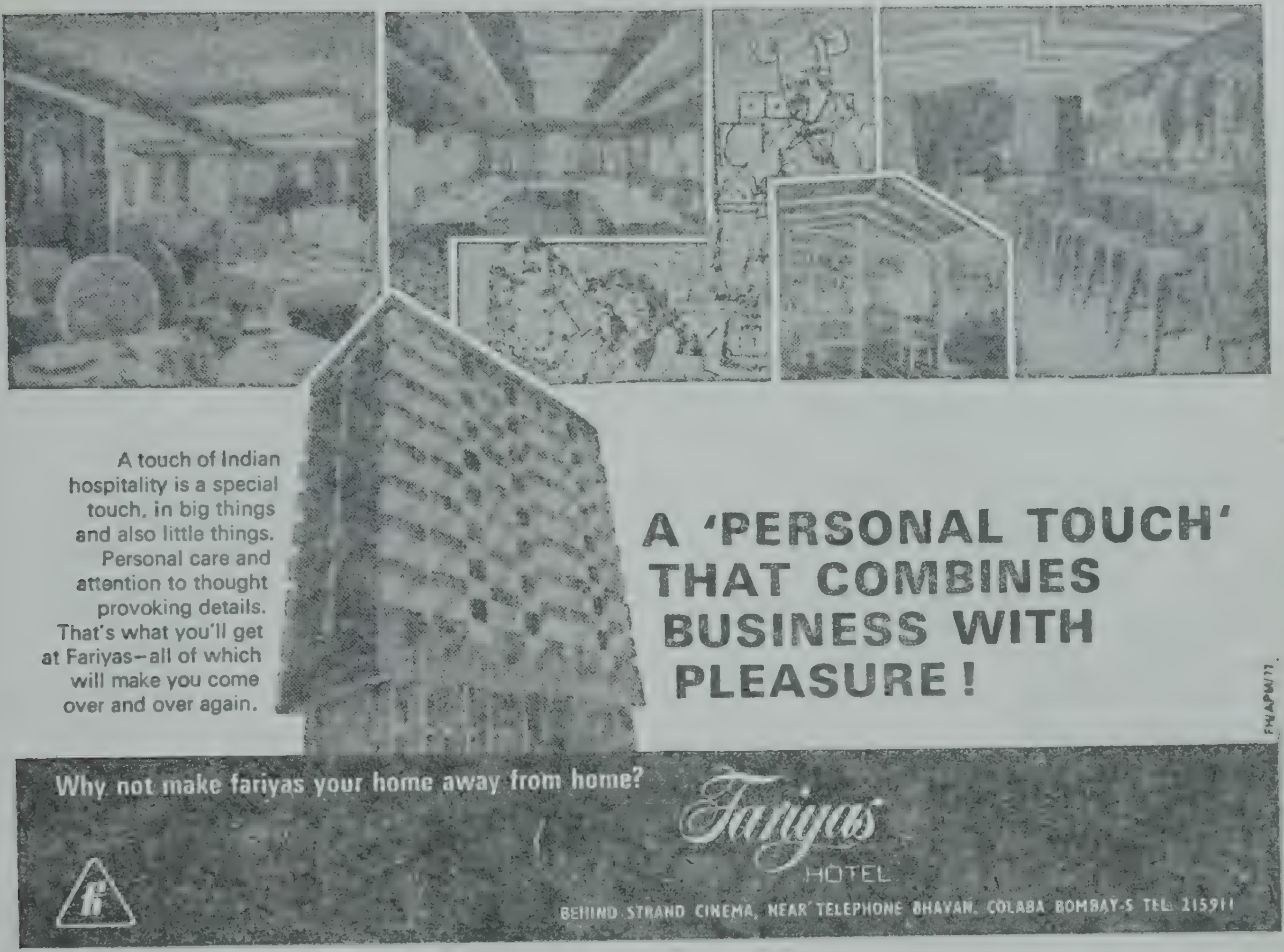
Belgaum (Karnataka)
Hotel Brindavan, Maruji Lane Corner.

Bhopal (Madhya Pradesh)
Hotel Ramsons International, Hamidia Rd.
Pagoda Hotel, Hamidia Rd.
Rajdoot Hotel, Hamidia Rd.

Bhubaneshwar (Orissa)
State Guest House.
Traveller's Lodge.

Bijapur (Karnataka)
Traveller's Lodge.

Bombay (Maharashtra)
Ambassador Hotel, Churchgate Extn.
Astoria Hotel, Churchgate Reclamation.
Centaur Hotel, Bombay Airport.
Fariyas Hotel Pvt. Ltd., Colaba.
Grand Hotel, Ballard Estate.
Holiday Inn, Turner Royal Lane, Juhu.
Hotel Bombay International, Marine Drive.
Hotel Ceasars Palace, 313, Linking Rd., Khar.
Hotel Heritage, Byculla.
Hotel In Phom, 148/8, Juhu Rd.
Hotel Hilltop International, Worli Sea Face.
Hotel Horizon, Juhu Beach.
Hotel Kemp's Corner, Kemps Corner.
Hotel Lawrence, Rampart Row.
Hotel Natraj, 135, N. Subash Rd.
Hotel Poonam International, Shiv Sagar Estate, Worli.
Hotel President, 90, Cuffe Parade.
Oberoi Sheraton, Nariman Point.
Ritz Hotel, 199, Churchgate Reclamation.
Sea Palace Hotel, Apollo Bunder.
Shalimar Hotel, Cumballa Hill.
Sun-n-Sand, 39, Juhu Beach.
Taj Mahal Hotel, Apollo Bunder.
Taj Mahal Intercontinental, Apollo Bunder.
West End Hotel, 45, Marine Lines.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Calcutta (West Bengal)

Airport Hotel, Dum Dum.
Astoria Hotel, 6/2/3, Sudder St.
Carlton Hotel, 2, Chowringhee.
Fairlawn Hotel, 13-A, Sudder St.
Grand Hotel, 15, Chowringhee.
Great Eastern Hotel, 1, 2 & 3, Old Court House St.
Hotel Hindustan International, 235/1, Acharya J. C. Bose Rd.
Hotel Majestic, 4C, Madan St.
Hotel Minerva, 11, Ganesh Chandra Ave.
Hotel Rutt-Deen Pvt. Ltd., 21B, London St.
Hotel West End, 25, Waterloo St.
Lytton Hotel, 14, Sudder St.
New Central Hotel, 90, Chittaranjan Ave.
New Kelinworth Hotel, 1 & 2, Little Russell St.
Oberoi Grand Hotel, 15, J. L. Nehru Rd.
Park Hotel, 17-B, Park St.
Ritz Continental Hotels Ltd., 12, J. L. Nehru Rd.
Sagar Hotel, 11, Waterloo St.
Spences Hotel, 4, Wellesley Place.
Stockman Hotel Pvt. Ltd., 12, Park St.

Cape Comorin or Kanya Kumari (Tamil Nadu)

Kerala House.

Chandigarh

Dak Bungalow.
Hotel Oberoi, Mount View, Sector 10.

Cochin & Ernakulam (Kerala)

Casino Hotel, Willingdon Island.
Grand Hotel, M. Gandhi Rd., Ernakulam.
International Hotel, M. Gandhi Rd., Ernakulam.
Island Hotel Maharaj, Willingdon Island.
Malabar Hotel, Willingdon Island.

Coimbatore (Tamil Nadu)

Hotel Alankar, Sivaswamy Rd., Ramnagar.
Hotel Guru, 16/54, Raja St.
Hotel Sri Murugan.

Coonoor (Tamil Nadu)

Hampton Manor Hotel.
Ritz Hotel.

Cuttack (Orissa)

Circuit House.
Cuttack Hotel, Near Rly. Stn.
Eastern Hotel.

Dalhousie (Himachal Pradesh)

Aroma-in-Claire's Hotel.
Grand View Hotel.

Darjeeling (West Bengal)

Central Hotel, Robertson Rd.

Oberoi Mount Everest, 15, Gandhi Rd
Windamere Hotel, Observatory Hill.

Dehra Dun (Uttar Pradesh)
Hotel Kwality, 19, Rajpur Rd.
Hotel Price, Hardware Rd.

Delhi & New Delhi
Akbar Hotel, Chanakyapuri.
Ashoka Hotel, 50-B, Chanakyapuri.
Claridges Hotel, 12, Aurangzeb Rd.
Hotel Diplomat, 9, Sardar Patel Rd.
Hotel Imperial, Janpath.
Hotel Janpath, Janpath.
Hotel Oberoi Intercontinental, Wellesley Rd.
Hotel Oberoi Maidens, 7, Alipur Rd.
Hotel President, Asaf Ali Rd.
Hotel Rajdoot, Mathura Rd.
Hotel Tourist, Near New Delhi Rly. Stn.
Lodi Hotel, Lala Lajpat Rai Marg.
Nirula's Hotel, L Block, Connaught Circus.
Welcomehotel Maurya, Diplomatic Enclave.

Dhanbad (Bihar)
Hotel Skylark, Bank More.

Faridabad (Haryana)
Holiday Inn.

Gauhati (Assam)
Happy Lodge.

Gaya (Bihar)
Traveller's Lodge, Bodh Gaya.

Goa
Goa Woodlands Hotel, M. L. Furtado Rd., Margao.
Hotel Mandovi, Panaji.
Hotel Solmar, Panaji.
Hotel Zuari, Vasco Da Gama.
Maberest Hotels Pvt. Ltd., Dr. W. Da Silva Rd., Panaji.
Tourist Hostel, Panaji.

Gopalpur on Sea (Orissa)
Oberoi Palm Beach.

Gulmarg (Kashmir)
Hotel Highlands Park.
Nedous's Hotel.

Gwalior (Madhya Pradesh)
Hotel Gujri Mahal, High Court Lane, Lashkar.
Usha Kiron Palace Hotel, Jai Vilas Palace.

Hyderabad-Secunderabad (Andhra Pradesh)
Hotel Banjara Ltd., Rd. No. 13, Banjara Hills.
Hotel Dwarka, Raj Bhavan Rd.
Hotel Emerald Pvt. Ltd., Chirag Ali Lane.
Hotel Nagarjuna, Basheer Bagh.
Hotel Parklane Pvt. Ltd., Sarojini Devi Rd.
Percy's Hotel, Sardar Patel Rd.
Ritz Hotel, Hill Fort Palace.
Rock Castle Hotel, Jubilee Hills.
Sagar Mahal, Osmansagar.
Taj Mahal Hotel, King Kothi Rd.

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Imphal (Manipur)
Hotel Manipur.

Indore (Madhya Pradesh)
Central Hotel, 27, M. Gandhi Rd.
Hotel Jahaz Mahal, 5, R. Tagore Marg.
Lantern Hotel, North Tukoganj.

Jabalpur (Madhya Pradesh)
Jackson's Hotel, Civil Lines.
Pagoda Hotel, 313, Napier Town.

Jaipur (Rajasthan)
Hotel Clarks Amer, J. L. Nehru Rd.
Hotel Khetri House.
Jai Mahal Palace Hotel, Civil Lines.
Kaiser-i-Hind Hotel, Tourist Palace.
LMB Hotel, Johari Bazar.
Rajasthan State Hotel, Mirza Ismail Rd., Khasa Kothi.
Rambagh Palace Hotel.

Jammu (Kashmir)
Hotel Asia, Nehru Mkt.

Jamshedpur (Bihar)
Tisco Hotel, 7B Rd.

Kalimpong (West Bengal)
Tourist Lodge.

Kangra Valley (Himachal Pradesh)
Civil Rest House.

Kanpur (Uttar Pradesh)
Berkeley Hotel, Civil Lines.
Sarvashri Meghdoot Hotels, Behari Lal Bldg., 37/3, The Mall.

Katrain (Himachal Pradesh)
Riverview Guest House.

Khajuraho (Madhya Pradesh)
Circuit House.
Hotel Chandela.
Khajuraho Hotel.
Tourist Bungalow.
Traveller's Lodge.

Kodaikanal (Tamil Nadu)
Carlton Hotel.
Highway Traveller's Bungalow.
Holiday Home.
Laughing Waters Guest House.

Konarak (Orissa)
Traveller's Lodge.

Kulu Valley (Himachal Pradesh)
Calvert Lodge.
Civil Rest House.
Forest Rest House.
Hotel May Flower.
Traveller's Lodge.

Lucknow (Uttar Pradesh)
Carlton Hotel, Shahnajaf Rd.
Hotel Clarks Avadh, 8, M. G. Mrg.
Hotel Gulmarg, Amin-ud-daula Park.

Ludhiana (Punjab)
Gulmor Hotel, Ferozpur Rd.
Hotel Shiraz, Ferozpur Rd.

Madras (Tamil Nadu)
Adyar Gate Hotel, 65, Mowbrays Rd.
Connemara Hotel, Binny's Rd.
Geeta Hotels Pvt. Ltd., Egmore.
Hotel Blue Diamond, 598, Poonamallee High Rd.
Hotel Chola, 5, Cathedral Rd.
Hotel Claridges, 14, Thambuswamy Rd.
Hotel Dasaprakash, 50, Poonamallee High Rd.
Hotel Imperial, 1A, Gandhi Irwin Rd.
Hotel Kanchi, Commander-in-Chief Rd.
Hotel Madras International, 2/144, Mt. Rd.
Hotel Maris, 4A, Cathedral Rd.
Hotel New Victoria, No. 1, Kennet Le., Egmore.
Hotel Palm Grove, 112, Kodambakkam High Rd.
Hotel President, Edward Elliot Rd.
Hotel Safari, 222, Royapettah High Rd.
Hotel Shrilekha, 11A/5, Mount Rd.
Hotel Silver Stars Pvt. Ltd., 3, Purasawalkam High Rd.
Hotel Sornam International, 10, Stringers St., P.T.
Hotel Sudarshan International, 12-A, Montieth Rd.
Hotel Victoria, Egmore.
Madras Hotel Ashoka Pvt. Ltd., Egmore.
Savera Hotel, 23-A, Edward Elliots Rd.
Taj Coromandel Hotel, 5, Nungambakkam High Rd.
Tourist Homes Pvt. Ltd., 5, G. Irwin Rd.
Woodlands Hotel, 1/23, E. Elliots Rd.

Madurai (Tamil Nadu)
Pandyan Hotel Ltd., Race Course.

Mahableshwar (Maharashtra)
Dina Hotel.
Fredrick Hotel.
Fountain Hotel.
Regal Hotel.

Manali (Himachal Pradesh)
Orchards Guest House.

Mangalore (Karnataka)
Hotel Annella, Hampankatta.
Moti Mahal, Falnir Rd.

Manipal (Karnataka)
Valley View International.

Matheran (Maharashtra)
Lords Central Hotel.
Royal Hotel.
Rugby Hotel.

Mount Abu (Rajasthan)
Bikaner Palace Hotel.

Mussoorie (Uttar Pradesh)
Connaught Castle Hotel, The Mall.
Hakman's Grand Hotel, The Mall.
Hotel Roan-Oke.
Savoy Hotel.
Sylverton Hotel, Kulri Bazar.

Mysore (Karnataka)
Hotel Highway Pvt. Ltd., New Bannimantap Extn.

Hotel Krishnaraj Sagar, Krishnaraj Sagar.
Hotel Metropole, J. Laxmibai Rd.
Hotel Mysore Dasaprakash, Gandhi Sqr. Rd.
Hotel Rajendravilas Imperial, Chamundi Hill.
Lalitha Mahal Palace Hotel.

Nagpur (Maharashtra)
Hotel Midland, Central Avenue.
Hotel Shyam, Malviya Rd., Sitabuldi.
Hotel Skylark, 119, Central Ave. Rd.
Mount Hotel, Commercial Rd.

Naini Tal (Uttar Pradesh)
Ardewell Camp.
Belvedere Hotel.
Brookhill Camp.
Grand Hotel.
Langham House.
Log Cabin, Cheena Peak.
Naini Tal Club.
Swiss Hotel.
Tourist Home.

Nasik (Maharashtra)
Green View Hotel, Trimbak Rd.
Hotel Mazda & Cafe, Agra Rd.
Hotel Rajdoot, Trimbak Rd.

Ootacamund (Tamil Nadu)
Hotel Dasaprakash.
Hotel Fernhill Imperial.
Savoy Hotel.
Tourist Bungalow.

Pahalgam (Kashmir)
Dak Bungalow.

Panchgani (Maharashtra)
Amir Hotel.
Il-Palazzo Hotel.
Prospect Hotel.

Patna (Bihar)
Hotel Maurya Clarks.
Hotel Natraj, Ashok Raj Path.
Hotel Pataliputra.
Hotel Republic, Exhibition Rd.
Hotel Satkar International, Fraser Rd.
Palace Hotel, Gandhi Maidan.

Pondicherry
Aurobindo Ghose Ashram.
Continental, Beach Rd.
Grand Hotel d' Europe, rue Suffren.

Pune (Maharashtra)
Dreamland Hotel, 14, Connaught Rd.
Hotel Ajit, 766/3, Deccan Gymkhana.
Hotel Amir, 15-A, Connaught Rd.
Hotel Blue Diamond, 11, Koregaon Rd.
Hotel Gulmohr, 15-A, Connaught Rd.
Hotel Pearl, Opp. Balgandharva Rangamandir, J. M. Rd.
Hotel Sapna, Jangli Maharaj Rd.
Hotel Shreyas, 124/B, Apte Rd.
Hotel Sutlej, 917/19-A, Shivaji Nagar.
Moboe Hotel, 20, Bund Garden Rd.
Ritz Hotel, 6, Connaught Rd.
Wellesley Hotel, 12-A, Connaught Rd.

Puri (Orissa)
Circuit House.
Forest Rest House.
P.W.D. Dak Bungalow.
South Eastern Railway Hotel.

Ranchi (Bihar)
Hotel Yuvraj.

Roorkee (Uttar Pradesh)
Polaris Hotel, Bar & Restaurant.

Sanchi (Madhya Pradesh)
Buddhist Guest House.
Circuit House.
P.W.D. Rest House.
Tourist Bungalow.

Shillong (Meghalaya)
Circuit House & Inspection Bungalow.
Pinewood Hotel.

Shivpuri (Madhya Pradesh)
Circuit House.
Dak Bungalow.
Shivpuri Hotel.

Simla (Himachal Pradesh)
Himland Hotel, Circular Rd.
Oberoi Cecil, The Mall.
Oberoi Clarkes, The Mall.

Srinagar (Kashmir)
Hotel Broadway.
Hotel Oberoi Palace.
Nedous's Hotel.

Surat (Gujarat)
Apsara, Lal Darwaja.
Hotel Ashima, Opp. Rly. Stn.
Tex-Palazzo Hotel, Ring Rd.

Tirupati (Andhra Pradesh)
Hotel Urvashi, Renigunta Rd.
Hotel Vikram, 207, T. P. Area.

Trichur (Kerala)
Tourist Bungalow.

Trivandrum (Kerala)
Hotel Belair, Vellayani.
Hotel Tara.
Mascot Hotel.

Udaipur (Rajasthan)
Garden Hotel and Motel.
Lake Palace Hotel.
Laxmi Vilas Palace Hotel.
Shikarbadi Hotel.
State Hotel.

Vadodara (Gujarat)
Express Hotel, R. C. Dutt Rd.
Green Hotel, Race Course Rd.
Utsav Hotel Pvt. Ltd., Navrang Cinema [illegible]

Varanasi (Uttar Pradesh)
Benaras Hotels Pvt. Ltd., Fort, Ramnagar.
Clarks Hotel.
Parade Kothi.
The Mall.
Tourist Bungalow.

Vijayawada (Andhra Pradesh)
Hotel Manorama, Bunder Rd.
Hotel Nataraj, Congress Office Rd.
Sri Durga Bhavan, Near R.T.C. Bus Stand, Elluru Rd.
Welcome Hotel, Sumathi Bldgs., Besant Rd., Gandhi Nagar.

Visakhapatnam (Andhra Pradesh)
Dolphin Hotels Ltd.
Hotel Apsara, 6/134, Waltair Main Rd.
Hotel Ooty, Dabagardens.
Hotel Poorna, Poorna Bldgs., Main Rd.
Hotel Vikram, 75 Feet Rd.
Marina Hotel, Beach Rd.
Sun-n-Sea, Beach Rd.

(See chapter on State Associations for a State-wise classification of Hotels and Restaurants Associations).

INDENTING AGENTS

Kaypee Sales Union, Nanabhoy Mansion (2nd Floor), Sir P. M. Rd., Bombay 400001.

INDUSTRIAL & MARKETING CONSULTANTS

Commander V. S. P. Mudaliar, 47, East Abiramapuram, Mylapore, Madras 600004.

CPA Consultancy Services Pvt. Ltd., 11/1A, Sarojini Naidu Sarani, Calcutta 700018.

Creative Consultants, G.P.O. Box 484, Bombay 400001.

Creative Mktg. Consultants Services Pvt. Ltd., 308, Neelam, Worli Sea Face, Bombay 400018.

Dalal Consultants & Engrs. Pvt. Ltd., 44, Maulana Abdul Gaffar Rd., Worli, Bombay 400018.

Decom Marketing Pvt. Ltd., Post Box 1340, Bombay 400038.

Digitron Consultants, Post Box 6554, Bombay 400018.

Dr. R. M. Shah & Associates, 613, Churchgate Chambers, 5, New Marine Lines, Bombay 400020.

Field Force & Marketing Associates, 18, Fountain Plaza, Pantheon Rd., Madras 600008.

Holtec Engrs. Pvt. Ltd., B/62, Safdarjang Enclave, New Delhi 110016.

Ibcon Pvt. Ltd., Merchant Chambers, 41, New Marine Lines, Bombay 400020.

Industrial & Agricultural Consultants, 5, Sardambal St., Gokulam Colony, Madras 600017.

Industrial Consultants (India), 18/34, Shaktinagar, Delhi 110007.

Industrial Consulting Bureau Ltd., Jiji House, Raveline St., Bombay 400001.

Industrial Consulting Bureau Ltd., 8A, Greames Rd., Madras 600006.

Iteng Engg. Pvt. Ltd., Aban House, 6th Flr., 25, Ropewalk St., Bombay 400023.

Kirloskar Consultants Ltd., 917/19A, Shivajinagar, Fergusson College Rd., Pune 411004.

ITENG ENGINEERING PRIVATE LIMITED

Aban House, 6th Floor, 25, Ropewalk Street,
Bombay 400 023.

Cable : 'ITENG'. Telex : 011-5823, ITEN. Phone : 258019.
Branches at : CALCUTTA, MADRAS, BANGALORE, DELHI.

- Inspection of Raw Materials, Manufactured Goods, and Equipments, Complete Industrial Plants, Power Generating and Transmission Equipment, Etc.
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- Valuation of Moveable and Immovable Properties, Estate Development Consultants, Recognised by Nationalized Banks and Important Industrial Houses as Valuers.
- Agents in India of several World Renowned Consultants — Robert W. Hunt Company, U.S.A.; International Inspection Company, Japan; Societe Generale Pour L'Industrie, Switzerland; Commonwealth Associates, Inc., U.S.A.; Electrobel, Belgium; Acres International, Canada; Kennedy & Donkin, U.K.; SWECO, Sweden; Balfour Beatty; Harza Engineering, U.S.A.; ELC-Electro-consult, Italy.

J. D. DAROGA, C. Eng.,
MSc (Eng.), FIE, FICE, FIMechE, FRSH, FIPHE,
DIC, FIProdE, MBIM, FIV, FIQA,
CHAIRMAN.

Maini Industrial Consultants, 12, Rajmahal Vilas Extn., Bangalore 560006.

Marketing. Consultants & Agencies Ltd., 36, Cunningham Rd., Bangalore 560052.

Marketing Group, C/o B. K. Parwani, 10, Jai Tirath Mansion, Barrack Rd., Bombay 400020.

Plywood & Industrial Consultants Pvt. Ltd., Makum Rd., Tinsukia 786125. (Assam).

Shah Industrial Consultants, B-16/18, Noble Chambers, Ghogha St., Bombay 400001.

Tata Consultancy Services, Air India Bldg., Nariman Point, Bombay 400021.

Tiam House Services Pvt. Ltd., 11/12, N. Beach Rd., Madras 600001.

(Also see Management Consultants in this list.)

INSULATION CONTRACTORS

Exelite Insulations Pvt. Ltd., 108, Worli Sea Face Rd., Bombay 400018.

Hightone Insulation Engrs. Pvt. Ltd., 27-A, Assisted Private Ind. Estate, Balanagar, Hyderabad 500037.

Lloyd Insulations (India), 6, Middleton St., Calcutta 700016.

Mascot Insulations Pvt. Ltd., 99/5/8A, Ballygunge Place, Calcutta 700019.

KITCHEN APPLIANCES REPAIRERS

Escee Service Centre, Shreenivas House, 98, Dattaram Lad Mrg., Kalachowki, Bombay 400033.

MACHINING JOBS

Competition (Mfg.) Corpn., 337, V. Savarkar Mrg., Bombay 400028.

Hind Engg. Works, 372, Dharwar Rd., Belgaum 590002.

K. K. Shipping Consultants Pvt. Ltd., Rex Chambers, Walchand Hirachand Mrg., Bombay 400001.

Manoj Engg. & Mech. Works, 5, Jeevan Sukh, 14th Rd., Bandra, Bombay 400050.

Sea Horse Engg. & Inflatable Co., 9, Waterloo St., Calcutta 700069.

Sunil Enterprises, B. Kumar Compd., LBS Mrg., Vikhroli, Bombay 400083.

MANAGEMENT CONSULTANTS

(The bracketed alphabets next to the name indicate B — Business; E — Engineering; I — Industrial; L — Legal; M — Management; Ma — Marketing; T — Technical).

Delhi

Automobile Corporate Services Pvt. Ltd., (M), 1, Sri Aurobindo Mrg., New Delhi 110016.

Exib Consultants Ltd., (I), A-2/147, Safdarjang Enclave, New Delhi 110016.

M. M. Suri & Associates Pvt. Ltd., (M), Bhandari House, 91, Nehru Place, New Delhi 110024.

Mahesh Chandra, (M), 50 Anandlok Colony, New Delhi 110049.

[illegible] Pvt. Ltd., (M), A-2/147, Safdarjang Enclave, New Delhi 110016.

Karnataka

COBIM Pvt. Ltd., (B.I.), 71, Nagvarpalyam, Off Old Madras Rd., Bangalore 560016.

Management & Industrial Consultants Pvt. Ltd., 47, 17th Cross, Malleswaram, Bangalore 560003.

Maharashtra

Advance Management Services, (M), 19, Jolly Maker Chambers No. 1, Nariman Point, Bombay 400021.

Almeco, (M.E.), Sambava Chambers, Sir P. [illegible] Bombay 400001.

Anwar Divecha & Associates, (M. Ma.), 1113, [illegible] Chambers, Charni Rd., Bombay 400004.

Associated Industrial & Management Services (I), 4 Veer Nariman Rd., Bombay 400023.

B. K. S. Jain & Associates, (M. Ma.), 7, [illegible] Savarkar Mrg., Bombay 400016.

Belrex India Ltd., (M), 10, Princep St., Calcutta 7

Chemiequip Process & Engg. Consultancy Services Pvt. Ltd., (T), 306, Green House, Green St., Bombay [illegible]

Creative Management Consultants Services Pvt. Ltd., 21, Atlanta, Nariman Point, Bombay 400021.

Executive Search, (M), P. Box 16565, Bombay [illegible]

Gauba Consultants (Pvt.) Ltd., (T.E.I.M.), 507 Kaka Chambers, 132 Dr. A. Besant Rd., Bombay 40[illegible]

Dr. Ghatge & Associates, (M), No. 2, [illegible] Mansion, Colaba Causeway, Bombay 400005.

H. L. Financial Consultants & Management Services Pvt Ltd., (M), Stock Exchange Bldg., Bombay [illegible] Mrg., Bombay 400023.

Dr. K. K. Anand & Associates, (I), 71, Mittal Chambers, N. Point, Bombay 400021.

Kirloskar Consultants Ltd., (I.T.M.), 917/19A, Shivaji nagar, Fergusson College Rd., Pune 411004.

Managerial Services Pvt. Ltd., (M), Vidyabhavan, Near S. T. Office, Agra Rd., Thane 400602.

Mehan & Associates, (M), The "Garib", Fifth North S[illegible] Rd., Juhu Vile Parle Scheme, Bombay 400058.

Modern Management Counsel, (M.T.), Court Chambers, New Marine Lines, Bombay 400020.

P. Sheth & Co. (M), 17/2, Parekh Vora Chambers, [illegible] N. Master Rd., Bombay 400023.

Personnel Adm. & Management Services, (M), [illegible] Gokhale Rd., Thane 400602.

Personnel and Productivity Services, (M), 148, M. Gandhi Rd., Bombay 400023.

Pranava Industrial Consultants Pvt. Ltd. (I), W[illegible] Court, August Kranti Mrg., Bombay 400036.

Research Consultants and Marketing Services Pvt. Ltd. (Ma), Udyog Bhavan, B. Estate, Bombay 400[illegible]

Sarin & Co. (M), Post Box 6544, Bombay 400[illegible]

Shah Research Associates Pvt. Ltd., (I), 138, [illegible] Bhuvan, 10th Flr., Nariman Point, Bombay 400021.

Tata Consultancy Services (M), Air India Bldg., Nariman Point, Bombay 400021.

West Bengal

Price, Waterhouse Peat & Co. (M), B-4, Gillander House, N. Subhas Rd., Calcutta 7[illegible]

MARINE ENGINEERS

(See Under 'Shipbuilders and Ship Repairers' in [illegible]

MUSEUMS

Andhra Pradesh

Andhra Kesari Yuvajana Samiti Museum (Regd.), Rajahmundry 533102, East Godavari Dist. (Paintings and Photographs).

Andhra Medical College Museum, Dept. of Anatomy, Andhra Medical College, Visakhapatnam [illegible] (Anthropology & Anatomy).

Archaeological Museum, Amravati, Guntur 522001. (Stupa slabs, Coping pieces and cross-bars, Inscriptions etc.).

Archaeological Museum, Kondapur. (Architectural fragments of Stupa slabs, Sculptures etc.).

Archaeological Museum, Nagarjunakonda. (Satavahana period antiquities consisting of Stone Sculptures, Pottery Terracottas, Beads, Bangles, Coins, Iron objects etc.).

Salarjung Museum, Hyderabad 500002. (Paintings (Western, Indian), Textiles, Porcelain, Jade, Carpets Manuscripts. Antique furniture, Ivory, Glass, Clocks, Bronze, Silver, Bidriware & Toys in the Children's Section).

State Archaeological Museum, Public Gardens, Hyderabad 400004. (Archaeology, Stone sculptures, Coins, Paintings & Costumes).

Arunachal Pradesh

Central Museum, Lachmiera, Shilling 793001. (Archaeology, Anthropology, Ethnology, Costumes).

Assam

Assam State Museum, Gauhati 781001. (Archaeology, Stone sculptures, Inscriptions, Paintings, Costumes, Ethnology).

Gauhati Medical College, Gauhati 781005. (Science, Medical, Anatomy).

Museum of Animal Husbandry and Veterinary Science, Assam Veterinary College, Gauhati 781022. (Veterinary Science).

Sibsagar College Museum, Sibsagar College, P.O. Joysagar Dist., Sibsagar 785640 (Archaeology, Costume, Ethnology, Science).

Bihar

Archaeological Museum, Bodhgaya, Gaya Dist. (Archaeology — Stone and bronze sculptures etc.)

Archaeological Museum, Nalanda, Patna Dist. (Archaeology — Stone and bronze sculptures).

Bihar Gandhi Smarak Sangrahalaya, North West Gandhi Ground, Patna 800001. (Personalia Museum of Gandhiji).

Bihar Tribal Welfare Research Institute, Morabadi Rd., Ranchi 834008. (Ethnology — the main purpose is to preserve material culture of the tribes of this State).

Gaya Museum, Gaya 823001. (Archaeology, Paintings, Costumes, Ethnology).

Patna Museum, Patna-Gaya Rd., Buddha Marg, Patna 800001. (Archaeology — Stone and bronze sculptures, Coins, Inscriptions, Art, Arms & Weapons, Ethnology, Tibetan & Nepalese).

State Chandradhari Museum, Darbhanga. (Multi-purpose)

Chandigarh

Government Museum & Art Gallery, Sector 10-C, Chandigarh 160017. (Miniature paintings. Sculptures including Gandhara sculptures and Modern art).

Delhi

Anthropology Department Museum, University of Delhi, Delhi 110007. (Anthropology — Cultural and Physical).

Archaeological Museum, Red Fort, Delhi 110006. (Historical Collections of Mughal period — Costumes, Arms, Coins, Jades, Astronomical objects and Miniature paintings).

Bhartiya Adim Jati Sevak Sangh Museum, Dr. Ambedkar Rd., New Delhi 110001. (Costumes and handicrafts of tribals).

Crafts Museum, Thapar House, 124, Janpath, New Delhi 110001. (Archaeology, Paintings, Costumes, Ethnology, Anthropology, and Crafts).

Gandhi Memorial Museum & Library, Rajghat, New Delhi 110001. (Photographs, Relics, Paintings, Sculptures of Gandhiji Library & Archives).

International Council of Museums (Regnl. Agency in Asia), 3/4, Sapru House Annexe, New Delhi 110001.

International Dolls Museum, Nehru House, Bahadurshah Zafar Marg, New Delhi 110002, (Dolls from all over the world).

National Children's Museum, Bal Bhavan, Kotla Rd., New Delhi 110001. (Dolls, Paintings, Photographs, etc.).

National Gallery of Modern Art, Jaipur House, New Delhi 110011. (Contemporary Paintings (from 1857 to date), Sculptures & Graphic Arts. Also paintings of Rabindranath Tagore and Amrita Shergil).

National Museum, Janpath, New Delhi 110001. (Prehistory, Proto-history, Sculptures, Bronzes, Copper plates, Coins, Miniature paintings, Arms, Arts, Pre-Columbian arts, Anthropology and Central Asian collections).

National Philatelic Museum, Dak Tar Bhavan, Sardar Square, Parliament St., New Delhi 110001. (Philately).

Nehru Memorial Museum, Teen Murti Marg, New Delhi 110001. (Personal belongings of Nehru & Library).

Tibet House Museum, 16, Jor Bagh, New Delhi 110003. (Tibetan sculptures, Paintings (Thankas), Ritual objects, Carpets etc.).

Gujarat

Calico Museum of Textiles, P.Box 21, Ahmedabad.

Darbar Hall Museum, Shilekhana Sakkar Bagh, Junagadh 362001. (Archaeology, Paintings, and Costumes).

Gandhi Smriti Museums, Gandhi Smriti, Bhavnagar 364001. (There are four museums under the care of Gandhi Smriti, all housed in one building. (*i*) Arts and Crafts Museum. Picturesque embroidery and Bead work of Saurashtra, Costumes, Ornaments, Wood Work. Clay objects, Antiquities from Valabin, Coins and Fossils from Piram island. (*ii*) Barton Museum. Fossils, Archaeology, Sculpture, Coins, Stones, Inscriptions, Copper plates, Manuscripts, Copies of Shilrot Wall paintings, Musical instruments, Brass utensils, Old locks, Arms, Artistic nutcrackers. (*iii*) Children's Museum. Relief map of Bhavnagar, Aquarium, Toys, Philatelic section, stuffed birds, reptiles and amphibians. (*iv*) Gandhi Museum. Photographs, collections of documents and personal relics, audio-visual material on Gandhiji).

Gujarat Museum Society, Culture Centre, Kocharab, Ahmedabad 380006. (Archaeology, Anthropology, Ethnology, Costumes, Paintings including N. C. Mehta Collection of miniatures, Science etc.).

Health Museum, Sayaji Bagh, Vadodara 390001. (Archaeology, Paintings, Costumes etc.).

Lady Wilson Museum, Dharampur, Valsad Dist. 396001. (Anthropology, Industrial Art and Natural History).

Museum & Picture Gallery, Sayaji Park, Vadodara 390005. (Indian Archaeology — Prehistoric, Proto-historic and Historic; Indian Art — Ancient, medieval, modern; Numismatics, Paintings, Asiatic and Egyptian collection, Greek, Roman, European Civilizations and Art, Ethnology, Geology, Zoology etc.).

Sardar V. Patel Museum, Sonifalia, Surat 395001. (Archaeology, Paintings & Costumes).

Shri Girdharbhai Children's Museum, Amreli Dist. 364601. (All round development of children).

Tribal Research & Training Institute, Gujarat Vidyapith, Ahmedabad 380014. (Anthropology).

Watson Museum, Jubilee Bagh, Rajkot 360001. (Archaeology, Anthropology, Costumes, Ethnology & Science).

Haryana

Haryana Prantiya Puratatva Sangrahalaya, P. O. Gurukul Jhajjar, Rohtak Dist. 124001. (Archaeology, Paintings, Costumes, Anthropology, Science, Geology, Numismatics, Sculpture, Craft and Manuscripts).

Himachal Pradesh

Bhuri Singh Museum, Chamba. (Archaeology, Anthropology, Costumes, Ethnology, Miniature Paintings).

Jammu & Kashmir

S.P.S. Museum, Lalmandi, Srinagar 190001. (Archaeology, Paintings, Costumes, Anthropology, Arts and Crafts, Minerals, Numismatics and Natural History).

Dogra Art Gallery, Jammu 180001. (Miniature paintings, specially Pahari).

Karnataka

Archaeological Museum, Bijapur 586101. Stone sculptures, Inscriptions, Manuscripts, Arms and Weapons, Chinaware, Wood-carvings, Carpets etc.).

Archaeological Museum, Halebid. (Stone sculptures, Architectural pieces of Hoysala period).

Archaeological Museum, Hampi. (Sculptures and architectural pieces belonging to the Vijayanagar period).

Museum of Art & Archaeology, Kannada Research Institute, Karnatak University, Dharwar 580003. (Archaeology, Epigraphy, Manuscripts, Sculptures, Numismatics, Paintings).

Visvesvaraya Industrial & Technological Museum, Kasturba Rd., Bangalore 560001. (History of Science & Technology, the latest developments by working models and exhibits).

Mysore Government Museum, Kasturba Rd., Bangalore 560001. (Multi-purpose).

Kerala

Natural History Museum. Dept. of Museums and Zoos, Trivandrum 695001. (Geology, Ethnology and Science).

State Museum, Trivandrum 695001. (Sculptures — Metal, Wood, Other Wood Carving, Ivory work, Collection of Lamps and Musical instruments, Numismatics, Handicrafts and Paintings).

State Museum, Trichur 680001. (Arts and Crafts, Woodcarvings, Natural History, Geology etc.).

V. K. Krishna Menon Museum, Calicut 673001.

Madhya Pradesh

Archaeological Museum, Khajuraho. (Archaeology — Stone sculptures from Khajuraho and vicinity).

Archaeological Museum, Sanchi, Raisen Dist. (Stone sculptures, Terracottas and other local finds).

Central Archaeological Museum, Gujari Mahal, Fort, Gwalior 474001. (Stone sculptures, Terracottas, Bronzes and Miniature paintings).

Central Museum, Bombay Agra Rd., Indore 452001. (Archaeology and Paintings).

Dhar District Museum, 12, Ootavad Darwaja, Dhar. (Mainly Archaeological).

District Archaeological Museum, Vidisha 464001. (Archaeology, Terracotta objects, Coins, Educational set of Harappan Art, etc.).

District Museum Shivpuri, Ban Ganga Rd., Shivpuri. [illegible] stone images (Jain Tirthankars), 20 [illegible] articles on exhibition. Rest in reserve [illegible].

Forest School Shivpuri, Shivpuri. (Forest products and Forestry, Ethnology).

Mahant Ghasi Dass Memorial Museum, Raipur 492[illegible] (Archaeology, Paintings, Costumes, Anthropology and Natural History, Art and Crafts).

State Museum, Dhubela, Chhatarpur. (Archaeology, Paintings, Costumes).

Tulsi Sangrahalaya, Ramban, Satna 485001. (Local Archaeological finds and stone sculptures).

Maharashtra

Central Museum, Nagpur 440001. (Archaeology, Anthropology, Paintings, Geology, Natural History).

Deccan College Museum, Pune 411001. (Excavated materials from Nevasa, Jorwe, Nasik etc. and Maratha period objects).

Dr. Bhau Daji Lad Museum, Byculla, Bombay [illegible].

Heras Institute of Indian History & Culture, St. Xavier's College, Bombay 400001. (Archaeology, Paintings, Sculpture, Iconography, Manuscripts & Rare books).

History Museum, Ahmednagar College, Ahmednagar 414001. (Archaeology, Paintings).

Magan Sangrahalaya, Maganwadi, P. O. Wardha 442001. (Only for Khadi & Village Industries).

Mahatma Phule Vastu Sangrahalaya, Ghole Rd., Pune 411001. (Archaeology, Agriculture, Anthropology, Costumes, Ethnology, Forestry, Industry, Paintings & Science).

Mani Bhavan Sangrahalaya, 19, Laburnum Rd., Gamdevi, Bombay 400007. (Personalia Museum of Gandhiji).

Prince of Wales Museum of Western India, Bombay 400023. (Archaeology, Art, Paintings, Costumes, Bronzes, Ivories, Porcelains, Jade, Natural History).

Raja Kelkar Museum, 1378, Shukrawarpeth, Natu Bagh, Pune 411001. (Archaeology, Anthropology, Ethnology, Costumes, Paintings).

Shri Bhavani Museum & Library, Aundh (Satara) Taluka Khatav, Satara Dist. 415001. (Archaeology, Paintings, Stone, Bronze statues, Sandalwood carvings and few textiles and a well-equipped Library).

Manipur

Manipur State Museum, Pologround, Imphal. (Anthropology, Archaeology, Ethnology, Costumes, Paintings Zoology & Geology).

Orissa

Archaeological Museum, Konarak, Puri Dist. [illegible] (Stone sculptures).

Orissa State Museum, Bhubaneshwar 751006. (Archaeology, Paintings, Costumes, Ethnology, Anthropology, Science, Manuscripts).

Punjab

State Museum, Patiala 147001. (Archaeology, Anthropology, Costumes, Paintings, Ethnology, Geology and Science).

Rajasthan

Archaeological Museum, Ahar. (Excavated material from the Chalcolithic site (1800 B.C. onwards) of [illegible] Sculptures and Bronzes).

Archaeological Museum, Amber. (Sculptures and excavated [illegible] Jaipur region).

Archaeological Museum, Jhalawar 326001. Sculptures, Inscriptions, Coins, Miniature paintings and Manuscripts).

Central Museum, Institute of Technology & Science, Pilani (Paintings, Science & Technology).

Central Museum, Ramniwas Gardens, Jaipur 302004.

Ganga Golden Jubilee Museum, Bikaner 334001. (Sculptures, Terracottas, Miniature paintings, Textiles, Arms and Decorative arts).

Government Museum, Alwar 301001. (Sculptures, Inscriptions, Arms, Miniature paintings and Decorative arts).

Maharaja of Jaipur Museum, City Palace, Jaipur 302002. (Miniature Paintings, Costumes, Arms & Armours, Textiles, Mughal carpets etc.).

Multipurpose Cultural Museum. (Sculptures, Miniature paintings, Ethnology, Anthropology, Educational etc.).

Museum of Saraswati Bhandar, Garh, Kotah 324001. (Paintings, Costumes, Arms & Manuscripts).

Rajputana Museum, Ajmer 305001. (Sculptures, Inscriptions, Coins, Paintings).

Rana Pratap Museum, Near Pichhola lake, Udaipur 313001. (Sculptures, Inscriptions, Coins, Paintings and local crafts).

Sardar Museum, Jodhpur 342001. (Paintings, Handicrafts, Textiles, Natural History).

State Museum, Bharatpur 321001. (Excavated material from Noh (1000 B.C. and onward), Sculptures, Inscriptions, Coins and Arms).

State Museum, Mandore, Jodhpur 342001. (Science, Natural History, Paintings & Gallery.)

State Museum, Mount Abu, Sirohi Dist. 307001. (Science, Paintings and Handicrafts).

Tamil Nadu

Fort St. George Museum, Madras 600001. (Paintings, Prints, Coins, Medals, Textiles, Porcelain Manuscripts etc. of early Indo-British history).

Gandhi Smarak Sangrahalaya, Tamukkam, Madurai 625013. Personalia Museum on Gandhiji *e.g.* Photographs, Relics, Manuscripts & Library).

Government Museum & National Art Gallery, Egmore, Madras 600008. (Archaeology, Stone and Bronze Sculptures, Art, Anthropology, Numismatics, Zoology, Botany, Geology, Children's section & Philately).

Government Museum, T. S. No. 6169, Big St., Tirugokarnam, Puddukkottai-2, Trichy District 620001. (Archaeology, Paintings, Costumes, Ethnology, Anthropology, Natural Sciences like Geology, Zoology and Botany).

Southern Forest Rangers College & Research Centre, P.O. R. S. Puram, Coimbatore 641002 (S. Rly.). Forest Museum.

Tipu Sultan Museum, Summer Palace, Dariya-Doulat-Bagh, Seringapatam. (Objects connected with the history of Haidar Ali and Tipu Sultan and their contemporary history).

Uttar Pradesh

Allahabad Museum, Alfred Park, Allahabad 211001. (Stone and Bronze sculptures, Terracottas, Miniature paintings, Modern Indian paintings and Gifts of Pandit Jawaharlal Nehru).

Archaeological Museum, Dampier Park, Mathura 281001. (Stone sculptures—particularly of Kushana and Gupta periods of Mathura school—Terracottas, Bronze etc.).

Archaeological Museum, Sarnath, Varanasi 221001. (Stone and Bronze sculptures, Seals, Beads, Toys, Terracottas and Pottery).

Bharat Kala Bhavan, Benaras Hindu University, Varanasi 221005. (Gandhi, Philatelic, Architecture, Bronze, Glassware, Arms, Roorich paintings, Jades, Jems, Ornaments, Modern art, Textiles, Coins, Miniature paintings, Terracottas, Sculptures, Nepal & Tibet Sections).

Maharaja Banaras Museum, Fort Ram Nagar, Varanasi 221001. (Stone sculptures, Textiles (Banaras brocades etc.), Arms, Manuscripts, Paintings, Decorative arts, Palanquins and Howdas etc.).

Motilal Nehru Bal Sangrahalaya, Motilal Nehru Marg, Charbagh, Lucknow 226001. (Exhibition and display according to the needs of the children).

Museum of Science & Culture, General Education Centre, Aligarh Muslim University, Aligarh 202001. (Science & Culture).

State Museum, Banarasibagh, Lucknow 226001. (Archaeology, Stone sculptures, Bronzes, Terracottas, Inscriptions, Anthropology, Paintings, Costumes, Ethnology & Natural History).

West Bengal

Asiatic Society of Bengal Museum, 1, Park St., Calcutta 700016. (Western paintings, Coins, Miniature paintings (Pala, Arabic, Persian etc.), Copper plates and Manuscripts).

Asutosh Museum of Indian Art, Centenary Bldg., Univ. of Calcutta, Calcutta 700012. (Archaeology, Art, Bengal Folk-Art, Paintings & Textiles).

Birla Academy of Art & Culture, 108-109, Southern Ave., Calcutta 700029. (Archaeology, Paintings, Costumes, Anthropology).

Birla Industrial & Technological Museum, 19A, Gurusaday Rd., Calcutta 700019. (Science).

Birla Planetarium & Astronomical Research Centre, 96, Chowringhee, Calcutta 700016. (Educational activities, Research problems and popularisation of Astronomy and allied fields).

Cultural Research Institute Museum, Scheduled Castes & Tribes Welfare Deptt., New Secretariat Bldgs., Block-B, 1, Hastings St., Calcutta 700001. (Ethnology & Anthropology).

Gandhi Smarak Sangrahalaya, 14, Riverside Rd., Barrackpore, 24 Parganas. (Relics, Replicas, Manuscripts, Photographs & Library).

Government Industrial and Commercial Museum, 45, Ganesh Chandra Ave., Calcutta 700013. (Industry and Commerce including folk art and handicrafts).

Indian Museum, 27, Jawaharlal Nehru Rd., Calcutta 700013. (Art, Bharhut, Gandhara and Pala Sculptures etc. Archaeology, Anthropology, Geology and Economic Botany).

Kala Bhavan, Visva Bharati University, Shantiniketan. (Fine Arts and Handicrafts.)

Rabindra Sadan, Tagore Memorial Museum, Shantiniketan. (Personalia Museum : Materials connected with the life and works of Rabindranath Tagore mainly consisting of Manuscripts, Paintings, Photographs, Voice records, Costumes, Books, Journals etc.).

State Archaeological Gallery, 33, Chittaranjan Ave. Calcutta 700013. (Pre- and Proto-historic excavated material, Terracottas, Pala Stone Sculptures, Bronzes, Wood-carvings, Textiles, etc.).

Victoria Memorial, 1, Queensway, Calcutta 700016. (Museum of Modern Indian History ; Historical paintings (Oil paintings, water colour, Late Mogul paintings etc.) Statues of Historical personages, Archival objects, Manuscripts, Arms & Armours).

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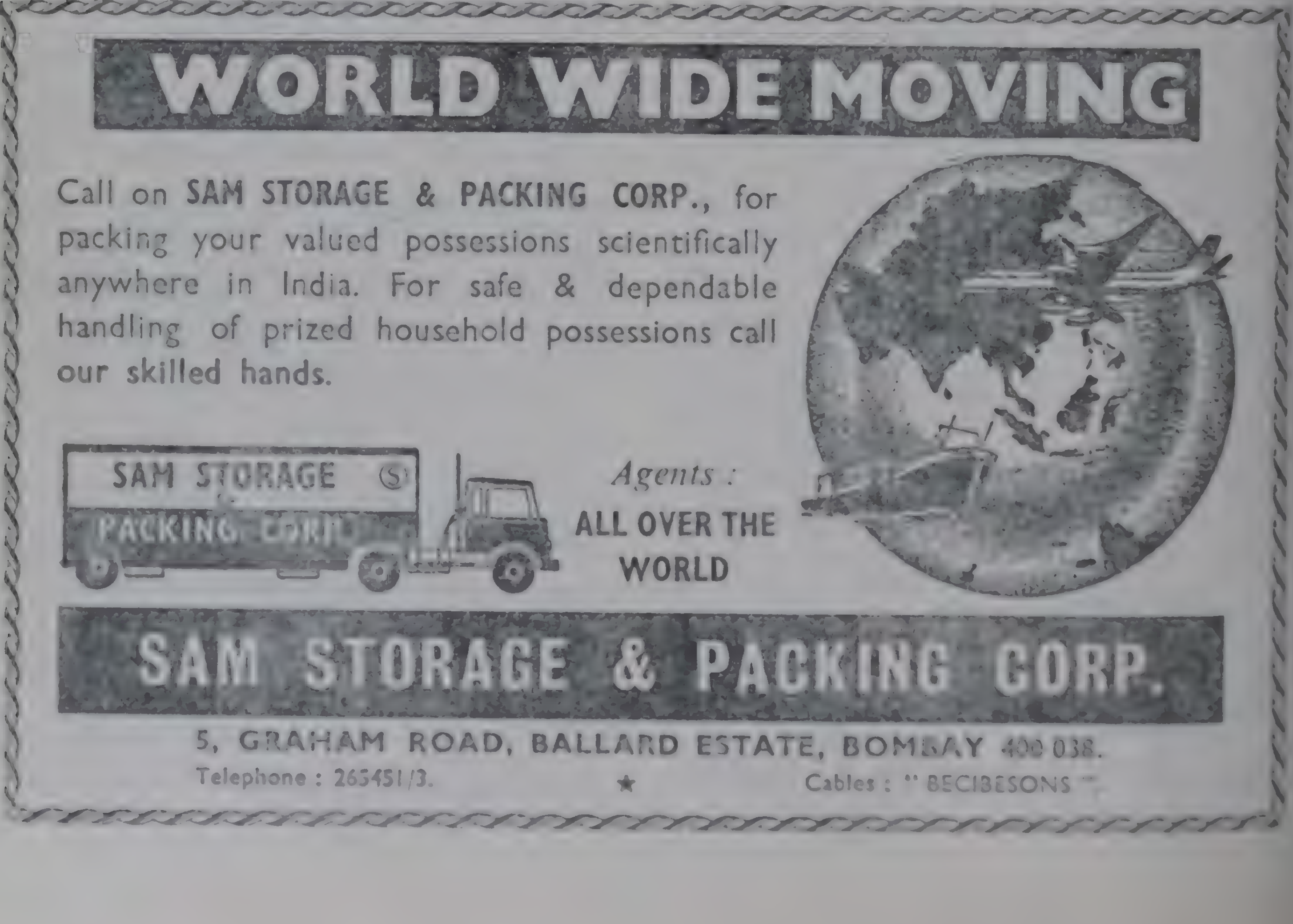
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Elite Corpn., Lentin Chambers, 36, Dalal St., Bombay 400023.
Eureka Mastic & Allied Products Pvt. Ltd., 461, D. S. Bhadkamkar Mrg., Bombay 400004.
Fumigation Ind. & Laboratory Chemicals Co. Pvt. Ltd., BPT Plot No. 52, Sewri Fort Rd., Bombay 400015.
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Paragon Pesticides, 164/4, Modi St., Bombay 400001.
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Universal Pest Control, 83, Chittaranjan Avenue, Calcutt
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Delhi Press, E3, Jhandewallan Estate, New Delhi 11
India Offset Press, A-1, Maya Puri Indl. Area, New De
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Panchal Press, 66, Gokhale Market, Mori Gate,
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R. K. Printers, 80-D, Kamla Nagar, Delhi 110007.
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Shuchi Pvt. Ltd., I-E, R. Jhansi Rd., Jhandewalan
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Statesman Ltd., Connaught Circus, New Delhi 11
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Delhi 110006.
Tijarti Press, Pan Mandi, Sadar Bazar, Delhi 11

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Bombay Press, 15, Stone Lane, Homji St., Bombay
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Tata Press Ltd., 414, V. Savarkar Mrg., Prabhadevi
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National Printing Works Pvt. Ltd., 1, G. Babu Lane, Calcutta 700012.

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Young Printers, 12/1/3, Goabagan St., Calcutta 700006.

PRINTERS—LETTERPRESS

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Hansa Printers, 13, Ambedkar Rd., Wadala, Bombay 400031.

Mebasser Printing Works, Lakshmi Bldg., 6, Shoorji Vallabhdas Mrg., Bombay 400038.

Rishon Printing Works, Kumpta St., Ballard Estate, Bombay 400038.

Sarvodaya Printery, 24, Pinjari St., Bombay 400003.

Swastik Printing Press, 228, Wadala, Udyog Bhavan, 8, Naigaum Cross Rd., Bombay 400031.

The Times of India Press, Dr. D. N. Rd., Bombay 400001.

PRINTERS—LITHOGRAPHY

Bolton Fine Art Litho Works, 274, J. Dadajee Mrg., Bombay 400007.

Bombay Fine Art Offset & Litho Works, 10, Sussex Rd., Veermata Jijabai Bhosale Udyan, Bombay 400027.

Eagle Lithographing Co. Pvt. Ltd., 26B, Christopher Rd., Entally, Calcutta 700046.

Headway Lithographic Co., P-253, C. I. T. Scheme No. 6 Calcutta 700054.

Modern Process Printers, 73, S.S.I. Area, V Block, Rajajinagar, Bangalore 560010.

Mohamadi Fine Art Litho Works, Mohamedi Bldg., Gun Powder Rd., Bombay 400010.

National Litho Works Pvt. Ltd., 608, B. Jagtap Rd., Bombay 400011.

National Lithographing & Printing Press, National Bldgs 1 & 2, Old Court House, Calcutta 700001.

Premier Offset Works, Swadeshi Mill Estate, Charni Rd., Bombay 400004.

Shivraj Firm Art Litho Works, Subash Rd., Nagpur 440002.

Sun Lithographing Co., P. 20, C. I. T. Rd., Calcutta 700010.

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Lotus Offset Printers, 88, S. N. Chetty St., Royapuram, Madras 600013.

Mehta Offset Works, 16, Block A, Narain Indl. Area, Phase II, New Delhi 110028.

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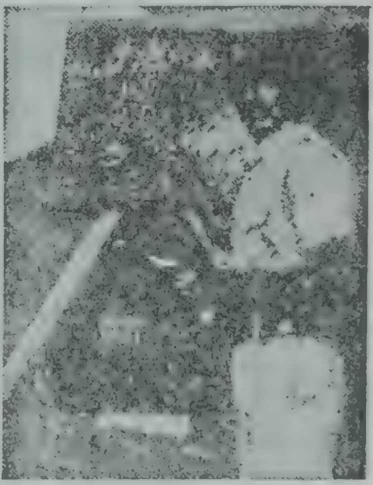

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GENERAL ELECTIONS

PARLIAMENT & ASSEMBLIES

AS a Sovereign Democratic Republic, India has a bicameral Legislature — The Rajya Sabha (Council of States) and Lok Sabha (The House of the People). The President heads both.

Rajya Sabha: No. of seats: 244. Nominated by President: 12. Requirements for election: Citizenship of India and over 30 years of age. Not subject to dissolution. One third members retire every three years. Members indirectly elected through State legislatures.

SIXTH LOK SABHA POLL

The Fifth Lok Sabha was dissolved on 18th January, 1977, although its term was extended first upto February, 1977 and then upto February, 1978.

Polling dates: *16th March* — Andhra Pradesh, Haryana, Himachal Pradesh, Meghalaya, Orissa, Punjab, Tripura, West Bengal, Andaman & Nicobar Islands, Chandigarh, Dadra and Nagar Haveli, Delhi, Goa, Daman & Diu, Lakshadweep, Pondicherry; *19th March* — Kerala; *16th and 18th March* — Nagaland; *16th and 19th March* — Assam, Gujarat, Jammu & Kashmir, Karnataka, Madhya Pradesh, Maharashtra, Manipur, Rajasthan, Sikkim, Tamil Nadu, Arunachal Pradesh, Mizoram; *16th, 18th and 20th March* — Bihar, Uttar Pradesh.

No. of Polling Stations: There were 373,684 polling stations in the 1977 elections as against 342,980 in 1971 and 267,555 in 1967.

Nominations: Although the number of elected seats to Lok Sabha had been increased to 542 as against 522 in the previous election the number of nominations received were 4,317 in 1977 as against 4,455 in 1971.

Personnel Engaged: A total of nearly 1·36 million personnel were engaged for the elections.

Cost of Poll: The poll cost Rs. 150 million — 200 per cent more than the expenditure incurred in the 1967 general election.

Electorate: The number of people allowed to vote was 173 million in first elections of 1951; 193 million in the second in 1957; 216 million in the third in 1962; 251 million in the fourth in 1967; 271 million in the fifth in 1971; and 318 million in the sixth in 1977. Total number of electorates was estimated (in February 1978) to be 330,120,669.

Women Candidates: There were 70 women contesting the 1977 Lok Sabha elections of whom 13 were from Uttar Pradesh and 8 each from Maharashtra and Bihar.

Women Voters: In the first general election in 1952, only 28,132,000 (37·1 per cent) out of the 77,286,000 women voters went to the polling booths.

But, 51,128,000 out of the 94,461,000 men voters exercised their franchise, constituting 55 per cent.

In the 1967 general election, 66,264,000 out of the 119,434,000 women voters and 86,460,000 out of the 129,569,000 men voters registerd their votes — 55·5 per cent and 66·7 per cent respectively.

While there was a sharp rise of 18·4 per cent in the number of women voters between 1952 to 1967, the increase in the case of men voters was only 11·7 per cent during this period.

The gap in the percentage of votes polled by men and women in 1952 was 17·9. This narrowed down in the subsequent general elections — 15·5 in 1962 and 11·2 in 1967. This gap decreased further in the 1971 election when [illegible] million women voters cast their votes.

The following statement shows the total number of constituencies, number of electors and polling stations, state-wise for the 1977 general elections.

Name of State/ Union Territory	Total number of constituencies	Total number of electors	Total number of polling stations
Andhra Pradesh ..	42	27,374,565	30,711
Assam	14	7,189,580	8,373
Bihar	54	34,233,510	41,007
Gujarat	26	14,099,926	18,234
Haryana	10	5,690,976	6,311
Himachal Pradesh ..	4	1,918,151	3,361
Jammu & Kashmir..	6	2,544,624	3,580
Karnataka	28	16,700,261	20,498
Kerala	20	11,350,840	10,688
Madhya Pradesh ..	40	22,505,193	27,619
Maharashtra ..	48	28,490,646	33,656
Manipur	2	784,484	910
Meghalaya	2	527,238	698
Nagaland	1	467,162	843
Orissa	21	12,626,873	14,118
Punjab	13	8,040,582	9,261
Rajasthan	25	15,172,042	18,980
Sikkim	1	122,696	150
Tamil Nadu ..	39	26,861,460	29,770
Tripura	2	863,877	1,055
Uttar Pradesh ..	85	51,674,319	59,728
West Bengal ..	42	25,052,735	29,035
Union Territories			
Andaman & Nicobar Islands	1	79,125	165
Arunachal Pradesh..	2	216,564	607
Chandigarh	1	153,423	148
Dadra & Nagar Haveli	1	37,495	43
Delhi	7	2,585,674	2,785
Goa, Daman & Diu..	2	469,295	618
Lakshadweep ..	1	18,750	27
Mizoram	1	197,475	273
Pondicherry ..	1	293,061	372
Grand Total ..	542	318,342,602	373,684

VOTES POLLED

Year	No. of seats	No. of Electors	No. of votes polled	% of votes polled
1	2	3	4	5
1952	489	CE 171,747,300 TE (173,213,635)	80,709,202	45·67
1957	494	CE 190,918,329 TE (193,652,069)	91,329,866	47·[illegible]
1962	494	CE 216,372,215 TE (217,693,197)	119,904,315	55·4[illegible]
1967	520	CE 249,003,334 TE (250,086,202)	152,724,611	61·[illegible]
1971	518	CE 274,079,516 TE (274,094,493)	151,536,802	55·[illegible]

CE = Electors in the contested constituencies only.
TE = Total Electors.

LOK SABHA GENERAL ELECTIONS — PARTY POSITION

Party	First General Election 25-10-1951		Second General Election 24-2-1957 to 9-6-1957		Third General Election 16-2-1962 to 6-5-1962		Fourth General Election 15-2-1967 to 28-2-1967		Fifth General Election 1-3-1971 to 13-3-1971		Sixth General Election 16-3-1977 to 20-3-1977	
	Seats Contested	Seats Won	Seats Contested	Seats Won	Seats Contested	Seats Won	Seats Contested	Seats Won	Seats Contested	Seats Won	Seats Contested	Seats Won
Congress	469	354	483	366	485	358	452	280	410	355	493	153
PSP	400	20	175	18	168	12	110	13	60	—	N.A.	—
CPI	69	26	115	29	137	29	101	23	71	24	91	7
Jan Sangh	91	3	103	4	196	14	235	36	162	16	*	*
Others (Ind.)	946	83	580	71	716	44	670	44	726	44	1,222	27
Swatantra	—	—	—	—	173	18	177	42	60	8	—	—
Republican	—	—	—	—	68	3	66	1	46	—	2	2
CPI (M)	—	—	—	—	—	—	57	19	50	26	53	22
SSP	—	—	—	—	—	—	119	23	89	3	*	*
Akali Dal	—	—	—	—	—	—	—	—	13	1	—	8
V.H.P.	—	—	—	—	—	—	—	—	3	—	—	—
Congress (O)	—	—	—	—	—	—	—	—	205	11	*	*
Muslim League	—	—	—	—	—	—	—	—	10	3	N.A.	2
Janata Party	—	—	—	—	—	—	—	—	—	—	423	299
AIADMK	—	—	—	—	—	—	—	—	—	—	N.A.	19

* Constituent of Janata Party.

General Elections to State Assemblies were held in 10 States and 3 Union Territories in June 1977. The number of seats won by various parties is given below :

States :

Bihar : Total 324. Janata 219, Cong. 57, CPI 21, CPI(M) 4, Jharkhand 2, Socialist Unity Centre (SUC) 1, Socialist Party 1, Soshit Dal 1, Independents 17. (Polling was countermanded in one Constituency).

Haryana : Total 90. Janata 75, Vishal Haryana Party (VHP) 5, Congress 3, Independents 7.

Himachal Pradesh : Total 68. Janata 53, Congress 9, Independents 6.

Madhya Pradesh : Total 320. Janata 230, Congress 84, Independents 6.

Orissa : Total 147. Janata 110, Congress 26, CPI 1, CPI(M) 1, Independents 9.

Punjab : Total 117. Akali Dal 58, Janata Party 24, CPI(M) 8, Congress 17, CPI 7, Independents 2.

Rajasthan : Total 200. Janata 150, Congress 41, CPI 1, CPI(M) 1, Independents 6. (Polling was countermanded in one Constituency).

Tamil Nadu : Total 234. AIADMK 130, Dravid Munnetra Kazagham (DMK) 48, Congress 27, CPI 12, Janata 10, CPI 5, Muslim League 1, Forward Bloc 1.

Uttar Pradesh : Total 423. Janata 351, Congress 46, CPI 9, CPI(M) 1, Independents 16.

West Bengal : Total 294. CPI(M) 178, Forward Bloc 25, Revolutionary Socialist Party (RSP) 20, Revolutionary Communist Party of India 3, Forward Bloc (Marxist) 3, Biplavi Bangla Congress 1, Janata Party 29, Congress 20, SUC 4, CPI 2, Gorkha League 2, CPI (Marxist-Leninist) 1, Muslim League 1, Congress for Democracy 1, Independents 3. (Polling in one Constituency was countermanded).

Union Territories:

Delhi : Total 56. Janata Party 46, Congress 10.

Goa, Daman & Diu : Total 30. MGP 15, Congress 10, Janata Party 3, Independents 2.

Pondicherry : Total 30. AIADMK 14, Janata Party 7, DMK 3, Congress 2, CPI 1, Independents 3.

Percentage of Votes Polled : The Janata Party got 43·17 per cent of the total votes polled in the sixth Lok Sabha elections. The Indian National Congress secured 34·54 per cent ; the CPI(M) 4·30 per cent ; the CPI 2·80 per cent ; other parties 9·15 per cent and independents 6·02 per cent. The percentage secured by the Indian National Congress was the lowest it has ever had. It got 43·68 per cent in 1971 ; 40·73 per cent in 1967 ; and 44·72 per cent in 1962.

Highest Majority : The highest winning majority was 429,545 secured by Ram Vilas Paswan (Janata Party) elected from Hajipur (Scheduled Caste) constituency in Bihar. He polled 469,007 votes against 44,462 polled by his nearest rival Baleshwar Ram. Out of 625,779 eligible voters 525,251 cast their votes.

Lok Sabha Speakers : 1. G. V. Mavlankar 1952-56 ; 2. M. Ananthasayanam Ayyangar 1956-62 ; 3. Hukam Singh 1962-67 ; 4. N. Sanjiva Reddy 1967-69 ; 5. G. S. Dhillon 1969-75 ; Bali Ram Bhagat 1975-77 ; N. Sanjeeva Reddy, Mar.-July 1977 ; K. S. Hegde since July 1977.

States with Bi-cameral Legislatures : Following are the States which have an Assembly and a Legislative Council. All the other States have only a Legislative Assembly. Andhra Pradesh ; Bihar ; Maharashtra ; Jammu and Kashmir ; Karnataka ; Tamil Nadu ; and Uttar Pradesh.

Composition of Assembly : The number of elective seats in the State assemblies and the legislative bodies of Union territories has gone up. It will be as follows (the figures in brackets show the seats they had on January 1, 1973):

Andhra Pradesh 294 (287), Assam 126 (114), Bihar 324 (318), Gujarat 182 (168), Haryana 90 (81), Himachal Pradesh 68 (68), Jammu and Kashmir 76 (75), Karnataka 224 (216), Kerala 140 (133), Madhya Pradesh 320 (296), Maharashtra 288 (270), Manipur 60 (60), Meghalaya 60 (60), Nagaland 60 (52), Orissa 147 (140), Punjab 117 (104), Rajasthan 200 (184), Sikkim 32 (—), Tamil Nadu 234 (234), Tripura 60 (60), Uttar Pradesh 425 (425), West Bengal 294 (280), Arunachal 30, Goa 30 (30), Mizoram 30 (30), Pondicherry 30 (30), Delhi metropolitan council 56 (56).

The total seats in new assemblies will be 3,997 as against 3,563 in 1967.

Legislative Council : The strength of the Council should be one third of the total membership of the Assembly but not less than 40.

Election to Councils : *One third* of its members are elected by the municipalities, district boards and other local authorities ; *One twelfth* by the graduates of the universities of the territory ; *One twelfth* by the teachers of institutions not lower than secondary school ; *One third* by members of the Legislative Assembly and, the remaining few are nominated by the Governor of the State.

Total seats in Parliament and State assemblies : 4,405, total votes assigned 1,082,886.

Lok Sabha Strength: The delimitation of parliamentary constituencies throughout the country has been completed and the strength of the Lok Sabha will increase to 542.

The latest distribution of the Lok Sabha seats in different states is : Andhra (42), Assam (14), Bihar (54), Gujarat (26), Haryana (10), Himachal Pradesh (4), Jammu and Kashmir (6), Karnataka (28), Kerala (20), Madhya Pradesh (40), Maharashtra (48), Manipur (2), Meghalaya (2), Nagaland (1), Orissa (21), Punjab (13), Rajasthan (25), Sikkim (1), Tamil Nadu (39), Tripura (2), Uttar Pradesh (85), and West Bengal (42).

Union territories: Andaman and Nicobar Islands (1), Arunachal Pradesh (2), Chandigarh (1), Dadra and Nagar Haveli (1), Delhi (7), Goa, Daman and Diu (2), Lakshadweep (1), Mizoram (1) and Pondicherry (1).

Janata Party: As on 25th June 1978 Janata Party consisted of : Jana Sangh 90, BLD 68, Cong. (O) [illegible] Socialists 51, CFD 28, Congress (Rebel) 6.

Reserved Seats : Of the total 542 seats in Lok Sabha 78 are reserved for Scheduled Castes and 38 for Scheduled Tribes.

In the State assemblies and Union territories the reserved seats are 539 and 282 for Scheduled Castes and Scheduled Tribes respectively after the latest delimitation of the constituencies.

Assembly Election (1978) : Five States and one Union Territory, went to the polls on 25th February, 1978 to elect 1,022 members to their Assemblies. The final party position after the elections, is given below :

States	Total	Janata	Cong.	Cong. (I)	CPI	CPI (M)	PWP	AP HPLC	Ind.	Others
Assam	126	54	25	8	5	11	—	—	12	11
Andhra Pradesh	294	60	30	175	6	8	—	—	15	—
Karnataka	224	58	2	152	3	—	—	—	—	9
Maharashtra	288	99	69	62	1	9	13	—	19	16
Meghalaya	60	—	20	—	—	—	—	16	10	14
Arunachal Pradesh	30	17	—	—	—	—	—	—	5	8

RAJYA SABHA

Chairman : B. D. Jatti ; *Deputy Chairman :* Ram Niwas Mirdha ; *Secretary-General :* S. S. Bhalerao ; *Addl. Secretaries :* S. P. Ganguly ; Sudarshan Agarwal.

Total No. of Seats : 244.

An estimate of party position in the Rajya Sabha is : Janata Party : 77 ; Congress–I : 65 ; Congress 48 : Communist Party : 9 ; All-India Anna Dravida Munnetra Kazhagam : 9 ; Communist Party (Marxist) : 8 ; Dravida Munnetra Kazhagam : 3 ; Muslim League : 2 ; Peasants and Workers Party : 1 ; Kerala Muslim League : 1 ; Rev. Socialist Party : 1 ; Rep. Party (Khobragade) : 1 ; People's Conference : 1 ; Independents : 14 ; Nominated : 8 ; Number of Women members : 25.

ANDHRA PRADESH—18 : N. G. Ranga (Cong.-I) ; V. B. Raju (Cong.) ; Venigalla Satyanarayana (Cong.) ; M. Anandam (Cong.) ; V. C. Kesava Rao (Cong.-I) ; Mohammad Rahamathulla (Cong.-I) ; R. Narasimha Reddy (J.P.) ; K. L. N. Prasad (Cong.) ; Palavai Rajasekharam (Cong.) ; K. V. Raghunatha Reddy (Cong.) ; M. R. Krishna (J.P.) ; Mohammad Yunus Saleem (Cong.) ; T. Anjiah (Cong.-I) ; Ghouse Mohiuddin Sheikh (Cong.-I) ; N. P. Chengalraya Naidu (J.P.) ; Buddha Priya Maurya (Cong.-I) ; Chadalavada Venkatrao (Cong.-I) ; B. Satyanarayan Reddy (J.P.).

ASSAM—7 : Sriman Prafulla Goswami (Ind.) : Bipinpal Das (Cong.) ; Syed Abdul Malik (Cong.-I) ; Tilok Gogoi (Cong.-I) ; Ajit Kumar Sharma (J.P.) ; Robin Kakati (J.P.) ; Dinesh Goswami (Cong.).

BIHAR—22 : Dr. Ramkripal Sinha (J.P.) ; Smt. Aziza Imam (Cong.) ; Kamalnath Jha (Cong.-I) ; Cha[illegible]manilal Chowdhary (Cong.-I) ; Kameshwar Singh (Cong.-I) ; Yogendra Sharma (C.P.I.) ; Mahendra Mohan Mishra (Cong.-I) ; Dharamchand Jain (Ind.) ; Indradeep Sinha (C.P.I.) ; Bhola Prasad (C.P.I.) ; Bhola Paswan Shastri (Cong.) ; Sitaram Kesri (Cong.-I) ; Rajendra Kumar Poddar (Ind.) ; Ramanand Yadav (Cong.-I) ; Bhishma Narain Singh (Cong.-I) ; Smt. Pratibha Singh (Cong.-I) ; Ram Lakhan Prasad Gupta (J.P.) ; A. P. Sharma (Cong.-I) ; Dayanand Sahaya (J.P.) ; Pranab Chatterjee (J.P.) ; J. K. P. N. Singh (J.P.) ; Shiva Chandra Jha (J.P.).

GUJARAT—11 : Yogendra Makwana (Cong.-I) ; Lal K. Advani (J.P.) ; Smt. Kumudben Manishanker Joshi (Cong.-I) ; Harisinh Bhagubava Mahida (Cong.-I) ; Ibrahim Kalaniya (Cong.-I) ; Prof. Ramlal Parikh (J.P.) ; Viren J. Shah (J.P.) ; Golandaz Mohammedhusain A. Samad (J.P.) ; Piloo Mody (J.P.) ; Manubhai Patel (J.P.) ; Ghanshyambhai Oza (J.P.).

HARYANA—5 : Bansi Lal (Ind.) ; Parbhu Singh (J.P.) ; Sujan Singh (J.P.) ; Sultan Singh (Cong.-I) ; Sarup Singh (J.P.).

HIMACHAL PRADESH—3 : [illegible] (Cong.-I) ; Gian Chand Totu (Cong.-I) ; Smt. Moninder Kaur (J.P.).

JAMMU AND KASHMIR—4 : Om Mehta (Ind.) ; Sayyed Mir Qasim (Cong.-I) ; Syed Nizam-ud-Din (J.P.) ; Tirath Ram Amla (Cong.-I).

KARNATAKA—12 : M. L. Kollur (Ind.) ; R. M. Desai (Cong.-I) ; Mulka Govinda Reddy (Cong.) ; Smt. Margaret Alva (Cong.-I) ; U. K. Lakshmana Gowda (Ind.) ; Maqsood Ali Khan (Cong.-I) ; K. S. Malle Gowda (Ind.) ; F. M. Khan (Cong.-I) ; L. R. Naik (Cong.-I) ; H. R. Basavaraj (Cong.-I) ; Ramakrishna Hegde (J.P.) ; Satchidanda (Cong.-I).

KERALA—9 : Hamik Ali Schamnad (K.M.L.) ; P. K. Kunjachen (C.P.I.-M) ; Smt. Leela Damodara Menon (Cong.) ; Viswanatha Menon (C.P.I.-M) ; B. V. Abdulla Koya (M.L.) ; T. Basheer (Cong.) ; K. K. Madhavan (Cong.) ; Pattiam Rajan (C.P.I.-M) ; S. Kumaran (C.P.I.).

MADHYA PRADESH—16 : P. C. Sethi (Cong.) ; Jagdish Joshi (J.P.) ; Shrikant Verma (Cong.-I) ; Balram Das (Cong.) ; Smt. Ratan Kumari (Ind.) ; Smt. Maimoona Sultan (Cong.-I) ; Smt. Jamuna Devi (J.P.) ; Smt. Shyamkumari Devi (Cong.) ; Gurudev Gupta (Cong.) ; Sawaisingh Sisodia (Cong.-I) ; Baleshwar Dayal (J.P.) ; Ladli Mohan Nigam (J.P.) ; Smt. Vijaya Raje Scindia (J.P.) ; Dr. Bhai Mahavir (J.P.) ; Bhagatram Manhar (Cong.-I) ; N. P. Chaudhari (Cong.).

MAHARASHTRA—19 : A. R. Antulay (Cong.-I) ; S. W. Dhabe (Cong.) ; Motiram Lahane (J.P.) ; S. K. Vaishampayen (Ind.) ; N. M. Kamble (Cong.-I) ; R. D. Jagtap Avergoankar (Cong.) ; Vithal Gadgil (Cong.-I) ; Smt. Saroj Khaparde (Cong.-I) ; K. N. Dhulap (P.W.P.) ; Smt. Sushila Shankar Adivarekar (Cong.-I) ; Bapuraoji Marotraoji Deshmukh (Cong.) ; J. S. Tilak (Cong.) ; Govindrao Ramchandra Mhaisekar (Ind.) ; A. G. Kulkarni (Cong.) ; B. D. Khobragade (R.P.I. Khobragade) ; Dr. Rafiq Zakaria (Cong.) ; N. K. P. Salve (Cong.-I) ; Ganpat Hiralal Bhagat (J.P.) ; Sadashiv Bagaitkar (J.P.) ; Vacant 1.

MANIPUR—1 : Ng. Tompok Singh (J.P.).

MEGHALAYA—1 : Alexander Warjri (Ind.).

NAGALAND—1 : Khyomo Lotha (J.P.).

ORISSA—10 : Patitpaban Pradhan (J.P.) ; Narasingha Prasad Nanda (Cong.) ; Santosh Kumar Sahu (Cong.) ; Rabi Ray (J.P.) ; Lakshmana Mahapatro (C.P.I.) ; Bhairab Chandra Mahanti (J.P.) ; Dhaneswar Majhi (J.P.) ; B. C. Pattanayak (J.P.) ; Surendra Mohanty (J.P.) ; Harekrushna Mallick (J.P.).

PUNJAB—7 : Jagjit Singh Anand (Cong.) ; Smt. Amarjit Kaur (Cong.) ; Sat Paul Mittal (Cong.) ; Gurcharan Singh Tohra (Akali) ; Smt. Ambika Soni (Cong.) ; Harkishan Singh Surjeet (C.P.I.-M) ; Smt. Rajinder Kaur (Akali).

RAJASTHAN—10 : Nathi Singh (J.P.) ; Smt. Ushi Khan (Cong.) ; Swami Dinesh Chandra (Cong.-I) ; Mohammed Usman Arif (Cong.-I) ; Ram Niwas Mirdha (Cong.) ; Rishi Kumar Mishra (Cong.) ; Kishan Lal Sharma (Cong.-I) ; Harishanker Bhabhda (J.P.) ; Bhim Raj (Cong.-I) ; R. R. Morarka (J.P.).

SIKKIM—1 : Leonard Soloman Saring (J.P.).

TAMIL NADU—18 : E. R. Krishnan (A.I.A.D.M.K.) ; U. R. Krishnan (A.I.A.D.M.K.) ; M. Kadershah (A.I.A.D.M.K.) ; C. D. Natarajan (Ind.) ; Murasoli Maran (D.M.K.) ; S. Ranganathan (Ind.) ; A. P. Janardhanam (A.I.A.D.M.K.) ; P. Ramamurti (C.P.I.-M) ; V. V. Swaminathan (A.I.A.D.M.K.) ; G. K. Moopanar (Cong.-I) ; G. Lakshmanan (D.M.K.) ; Smt. Noorjehan Razack (A.I.A.D.M.K.) ; S. A. Khaja Mohideen (M.L.) ; V. Gopalasamy (D.M.K.) ; Smt. Sathiavani Muthu (A.I.A.D.M.K.) ; Era Sezhiyan (J.P.) ; Dr. M. Moses (Cong.-I) ; V. Venka (A.I.A.D.M.K.).

TRIPURA—1 : Bir Chandra Deb Burman (C.P.I.).

UTTAR PRADESH—34 : Shanti Bhushan (J.P.) ; Krishna Nand Joshi (Cong.-I) ; Kalp Nath Rai (Cong.-I) ; Jagbir Singh (J.P.) ; Devendra Nath Dwivedi (Cong.) ; Piare Lall Kureel Urf Piare Lall Talib (Cong.-I) ; Suresh Narain Mulla (Cong.-I) ; Ghayoor Ali Khan (J.P.) ; Triloki Singh (Cong.) ; Mahadeo Prasad Varma (J.P.) ; Nageshwar Prasad Shahi (J.P.) ; Prakash Mehrotra (Cong.-I) ; Bhagwan Din (Cong.-I) ; Smt. Hamida Habibullah (Cong.-I) ; K. B. Asthana (J.P.) ; Narendra Singh (J.P.) ; Shivdayal Singh Chaurasia (J.P.) ; Prem Manohar (J.P.) ; Dinesh Singh (J.P.) ; M. M. S. Siddhu (J.P.) ; Shyam Lal Yadav (Cong.-I) ; Bhanu Pratap Singh (J.P.) ; Sunder Singh Bhandari (J.P.) ; Kamlapati Tripathi (Cong.-I) ; Syed Ahmad Hashmi (Cong.) ; Shiva Nandan Singh (J.P.) ; Abdul Rehman Sheikh (J.P.) ; Kalraj Mishra (J.P.) ; K. C. Pant (Cong.) ; Jagdish Prasad Mathur (J.P.) ; G. C. Bhattacharya (J.P.) ; Rameshwar Singh (J.P.) ; Lakhan Singh (J.P.) ; Surendra Mohan (J.P.).

WEST BENGAL—16 : Prasenjit Barman (Cong.) ; Jaharlal Banerjee (Cong.) ; Ananda Pathak (C.P.I.-M) ; Phanindra Nath Hansda (Cong.) ; Bhupesh Gupta (C.P.I.) ; Kalyan Roy (C.P.I.) ; D. P. Chattopadhyaya (Cong.) ; Smt. Purabi Mukhopadhyay (Cong.) ; Sankar Ghose (Cong.) ; Smt. Pratima Bose (Cong.) ; Pranab Mukherjee (Cong.-I) ; Ahmad Hosain Mondal (Cong.) ; Amarprosad Chakraborty (F.B.) ; Smt. Kanak Mukherjee (C.P.I.-M) ; Syed Shahedullah (C.P.I.-M) ; Sourendra Bhattacharjee (R.S.P.).

ARUNACHAL PRADESH—1 : Rotom Tama (J.P.).

DELHI—3 : Khurshed Alam Khan (Cong.-I) ; Charanjit Chanana (Cong.-I) ; Jagannathrao Joshi (J.P.).

MIZORAM—1 : Lalsawia (Peoples Conference).

PONDICHERRY—1 : V. P. Munusamy (A.I.A.D.M.K.).

NOMINATED—12 : Prof. Rasheeduddin Khan ; B. N. Banerjee ; *Bishambhar Nath Pande ; *Dr. Lokesh Chandra ; *Smt. Maragatham Chandrasekhar ; Krishna Kripalani ; Scato Swu ; †V. P. Dutt ; Smt. Fathema Ismail ; Malcolm Sathianathan Adiseshiah ; Bhagwati Charan Varma ; Pandurang Dharmaji Jadhav.

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* Joined Congress (I). † Joined Congress.

LOK SABHA

Speaker : K. S. Hegde.

Dy. Speaker : Godey Murahari.

Secretary : Avtar Singh Rikhy.

Total Seats : 544.

The party position : Janata Party : 305 ; Congress : 66 ; Congress-I : 76 ; Communist Party of India (Marxist) : 22 ; All India Anna Dravida Munnetra Kazhagam : 19 ; Communist Party of India : 6 ; Akali Dal : 9 ; Peasants & Workers Party : 6 ; Revolutionary Socialist Party : 4 ; Forward Bloc : 3 ; Republican Party of India (Khobragade) : 2 ; Muslim League : 2 ; National Conference : 2 ; Kerala Congress : 2 ; Unattached : 16 ; Vacant : 3 ; Women members : 20.

ANDHRA PRADESH — 42 : G. Narasimha Reddy (Cong.), (*Adilabad*) ; Kusuma Krishna Moorthy (Cong.-I.), (*Amalapuram—S.C.*) ; S. R. A. S. Appalanaidu (Cong.), (*Anakapalli*) ; Darur Pullaiah (Cong.-I.), (*Anantapur*) ; A. Prasada Rao (Cong.-I.), (*Bapatla*) ; Smt. Radhabai Ananda Rao (Cong.-I.),† (*Bhadrachalam—S.T.*) ; P. V. Gajapati Raju (Cong.-I.), (*Bobbili*) ; P. Rajagopal Naidu (Cong.-I.),(*Chittoor*); K. Obul Reddy (Cong.-I.),(*Cuddapah*); K. Suryanarayana (Cong.), (*Eluru*) ; K. Raghuramaiah (J.P.), (*Guntur*) ; P. V. Narasimha Rao (Cong.-I.), (*Hanamkonda*) ; P. Bayappa Reddy (Cong.-I.), (*Hindupur*) ; K. S. Narayana (Cong.-I.), (*Hyderabad*) ; M. S. Sanjeeva Rao (Cong.-I.), (*Kakinada*) ; M. Satyanarayana Rao (Cong.-I.), (*Karimnagar*) ; J. Kondala Rao (Cong.-I.), (*Khammam*) ; K. Vijaya Bhaskara Reddy (Cong.), (*Kurnool*) ; Ankineedu Maganti (Cong.-I.), (*Machilipatnam*) ; J. Rameshwara Rao (Cong.), (*Mahbubnagar*) ; Mallikarjun (Cong.-I.), (*Medak*) ; G. S. Reddy (Cong.-I.), (*Miryalguda*) ; M. Bheeshma Dev (Cong.-I.), (*Nagar Kurnool—S.C.*) ; Abdul Lateef (Cong.), (*Nalgonda*) ; P. Venkata Subbiah (Cong.-I.), (*Nandyal*) ; A. Subhash Chandra Bose (Cong.-I.), (*Narasapur*) ; K. Brahmananda Reddy (Cong.), (*Narasaraopet*) ; D. Kamakshaiah (Cong.-I.), (*Nellore—S.C.*) ; M. Rama Gopal Reddy (Cong.), (*Nizamabad*) ; P. Venkata Reddy (Cong.-I.), (*Ongole*) ; V. K. C. Suryanarayana Deo (Cong.), (*Parvatipuram—S.T.*) ; V. Tulsi Ram (Cong.-I.), (*Peddapalli—S.C.*) ; P. Ramarao (Cong.-I.), (*Rajahmundry*) ; P. Parthasarathi (J.P.), (*Rajampet*) ; P. Shiva Shankar (Cong.-I.), (*Secunderabad*) ; N. Yelliah (Cong.-I.), (*Siddipet—S.C.*) ; B. Rajagopala Rao (Cong.-I.), (*Srikakulam*) ; M. Nageswara Rao (Cong.-I.), (*Tenali*) ; T. Balakrishnaiah (Cong.-I.), (*Tirupathi—S.C.*) ; G. Murahari (Cong.), (*Vijayawada*) ; D. R. Satyanarayana (Cong.-I.), (*Visakhapatanam*) ; G. Mallikarjuna Rao (Cong.), (*Warangal*).

ASSAM — 14 : Biren Singh Engt (Cong.-I.), (*Autonomous Dist.—S.T.*) ; Ismail Hussain Khan (Cong.), (*Barpeta*) ; Ahmed Hossen (Cong.), (*Dhubri*) ; Haren Bhumij (Cong.), (*Dibrugarh*) ; Renuka Devi Barkataky (J.P.), (*Gauhati*) ; Tarun Gogoi(Cong.-I),(*Jorhat*); Bedabrata Barooah (Cong.), (*Kaliabor*) ; Nihar Laskar (Cong.-I), (*Karimganj—S.C.*) ; Charan Narzary (Ind.), (*Kokrajhar—S.T.*) ; Lalitkumar Doley (Cong.-I.), (*Lakhimpur*) ; Hiralal Patowary (J.P.), (*Mangaldoi*) ; D. K. Barooah (Cong.), (*Nowgong*) ; Smt. Rashida Haque Choudhury (Cong.), (*Silchar*) ; Puran Narayan Sinha (J.P.), (*Tezpur*).

BIHAR — 54 : Mahendra Narayan Sardar (J.P.), (*Araria—S.C.*) ; Chandra Prasad Verma (J.P.), (*Arrah*) ; S. N. Sinha (J.P.), (*Aurangabad*) ; Jagannath Prasad (J.P.), (*Bagaha—S.C.*) ; Ramjivan Singh (J.P.), (*Balia*) ; Madhu Limaye (J.P.), (*Banka*) ; Shyam Sundar Gupta (J.P.), (*Barh*) ; S. N. Mishra (J.P.), (*Begusarai*) ; Fazlur Rehman (J.P.), (*Bettiah*) ; Dr. Ramji Singh (J.P.), (*Bhagalpur*) ; Ram Awadesh Singh (J.P.), (*Bikramganj*) ; Ramanand Tiwari (J.P.), (*Buxar*) ; L. P. Yadav (J.P.), (*Chapra*) ; Sukhdev Prasad Verma (J.P.), (*Chatra*) ; S. Surendra Jha (J.P.), (*Darbhanga*) ; A. K. Roy (Ind.), (*Dhanbad*) ; B. Hem Ram (J.P.), (*Dumka—S.T.*) ; Ishwar Choudhary (J.P.), (*Gaya—S.C.*) ; Ramdas Singh (J.P.), (*Giridih*) ; Jagdambi Prasad Yadav (J.P.), (*Godda*) ; Pt. D. N. Tiwari (J.P.), (*Gopal Ganj*) ; Ram Vilas Paswan (J.P.), (*Hajipur—S.C.*) ; Dr. B. N. Singh (J.P.), (*Hazaribagh*) ; R. P. Sarangi (J.P.), (*Jamshedpur*) ; H. L. P. Sinha (J.P.), (*Jehanabad*) ; Dhaniklal Mandal (J.P.), (*Jhanjharpur*) ; Yuvraj Singh (J.P.), (*Kathihar*) ; G. P. Yadav (J.P.), (*Khagaria*) ; Karia Munda (J.P.), (*Khunti—S.T.*) ; Halimuddin Ahmed (J.P.), (*Kishanganj*) ; Ritlal Prasad Verma (J.P.), (*Koderma*) ; Lalu Uraon (J.P.), (*Lohardaga—S.T.*) ; B. P. Mandal (J.P.), (*Madhepura*) ; Hukumdeo Narain Yadav (J.P.), (*Madhubani*) ; Ramdeo Singh (J.P.), (*Maharajganj*) ; Srikrishna Singh (J.P.), (*Monghyr*) ; T. Ramapati Singh (J.P.), (*Motihari*) ; George Fernandes (J.P.), (*Muzaffarpur*) ; Birendra Prasad (J.P.), (*Nalanda*) ; Nathuni Ram (J.P.), (*Nawadah—S.C.*) ; Ramdevi Ram (J.P.), (*Palamau—S.C.*) ; Mahamaya Prasad Sinha (J.P.), (*Patna*) ; L. L. Kapoor (J.P.), (*Purnea*) ; Fr. Anthony Murmu (J.P.). (*Rajmahal — S.T.*) ; Ravindra Varma (J.P.), (*Ranchi*) ; Ram Sevak Hazari (J.P.), (*Rosera—S.C.*) ; Vinayak P. Yadav (J.P.), (*Saharsa*) ; Prof. Ajit Kumar Mehta (J.P.), (*Samastipur*) ; Jagjivan Ram (J.P.), (*Sasaram—S.C.*) ; Thakur G. N. Singh (J.P.), (*Sheohar*) ; Bagun Sumbrui (J.P.), (*Singhbhum—S.T.*) ; Shyam Sundar Das (J.P.), (*Sitamarhi*) ; Mrityunjay Prasad (J.P.), (*Siwan*) ; Digvijay Narain Singh (J.P.), (*Vaishali*).

GUJARAT — 26 : Ahsan Jafri (Cong.), (*Ahmedabad*) ; Dwarka Das Patil (Cong.), (*Amreli*) ; Ajitsinh Dabhi (Cong.-I.), (*Anand*); Motibhai R. Chaudhary (J.P.), (*Banaskantha*) ; F. P. Gaekwad (Cong.), (*Baroda*) ; Prasannavadan M. Mehta (J.P.), (*Bhavnagar*) ; Ahmed M. Patel (Cong.-I.), (*Broach*) ; Nanubhai N. Patel (J.P.), (*Bulsar*) ; Amarsinh V. Rathawa (Cong.-I.), (*Chhota-Udepur—S.T.*) ; Natverlal B. Parmar (J.P.), (*Dhandhuka—S.C.*) ; Somjibhai Damor (Cong.-I.), (*Dohad—S.T.*) ; P. G. Mavalankar (Ind.), (*Gandhinagar*) ; H. K. Desai (Cong.), (*Godhra*) ; Vinodbhai B. Sheth (J.P.), (*Jamnagar*) ; Narendra P. Nathwani (J.P.), (*Junagadh*) ; D. D. Desai (Cong.), (*Kaira*) ; Shankarsinhji L. Vaghela (J.P.), (*Kapadvanj*) ; A. D. Dave (J.P.), (*Kutch*) ; Chhitubhai Gamit (Cong.-I.), (*Mandvi—S.T.*) ; Kum. Maniben V. Patel (J.P.), (*Mehsana*) ; Khemchandbai S. Chavda (J.P.), (*Patan—S.C.*) ; Dharamsinghbhai D. Patel (J.P.), (*Porbandar*) ; Chimanbhai Hiralal Shukla (J.P.), (*Rajkot*) ; H. M. Patel (J.P.), (*Sabarkantha*) ; Morarji R. Desai (J.P.). (*Surat*) ; R. K. Amin (J.P.), (*Surendranagar*).

HARYANA — 10 : Suraj Bhan (J.P.), (*Ambala—S.C.*) ; Smt. Chandravati (J.P.), (*Bhiwani*) ; Dharam Vir Vasisht (J.P.), (*Faridabad*) ; Inder Singh (J.P.), (*Hissar*) ; Mohinder Singh (J.P.), (*Karnal*) ; Raghubir Singh (J.P.), (*Kurukshetra*) ; Manoharlal Saini (J.P.), (*Mahendragarh*) ; Sher Singh (J.P.), (*Rohtak*) ; Chand Ram (J.P.), (*Sirsa—S.C.*) ; Mukhtiar Singh Mallik (J.P.), (*Sonepat*).

HIMACHAL PRADESH — 4 : Ranjit Singh (J.P.), (*Hamirpur*) ; Durga Chand (J.P.), (*Kangra*) ; Ganga Singh (J.P.), (*Mandi*) ; Balak Ram (J.P.), (*Simla—S.C.*).

JAMMU AND KASHMIR — 6 : Mohammed Shafi Qureshi (Cong.), (*Anantnag*) ; Abdul Ahad Vakil (N.C.), (*Baramulla*) ; Thakur Baldev Singh (J.P.), (*Jammu*) ; Smt. Parvati Devi (Cong.), (*Ladakh*) ; Smt. Akbar Jahan Begum (N.C.), (*Srinagar*) ; Dr. Karan Singh (Cong.), (*Udhampur*).

KARNATAKA — 27 : S. B. Patil (Cong.), (*Bagalkot*) ; C. K. Jaffer Sharif (Cong.-I.), (*Bangalore North*) ; K. S. Hegde *(J.P.), (*Bangalore South*) ; A. K. Kotrashetty (J.P.), (*Belgaum*) ; K. S. Veerabhadrappa (Cong.-I.), (*Bellary*) ; Shankar Dev (Cong.-I.), (*Bidar—S.C.*) ; K. B. Choudhari (Cong.-I.), (*Bijapur*) ; B. Rachaiah (Cong.-I.), (*Chamarajnagar—S.C.*); M. V. Krishnappa (Cong.), (*Chikballapur*) ; B. Shankaranand (Cong.-I.), (*Chikkodi—S.C.*) ; Vacant, (*Chikmagalur*) ; K. Mallanna (Cong.-I.), (*Chitradurga*) ; Kondaji Basappa (Cong.), (*Davangere*) ; Dr. Sarojini Mahishi (J.P.), (*Dharwar North*) ; F. H. Mohsin (Cong.), (*Dharwar South*) ; S. R. Reddy (Cong.-I.), (*Gulbarga*) ; S. Nanjesh Gowda (J.P.), (*Hassan*) ; M. V. Chandrasekhar Murthy (Cong.-I.), (*Kanakapura*) ; B. P. Kadam (Cong.), (*Kanara*) ; G. Y. Krishnan (Cong.-I.), (*Kolar—S.C.*) ; Siddarameswar Swami (Cong.), (*Koppal*) ; K. Chikkalingaiah (Cong.-I.), (*Mandya*) ; Janardhana Poojary (Cong.-I.), (*Mangalore*) ; H. D. Tulsidas (Cong.), (*Mysore*) ; Rajasekhar Kolur (Cong.), (*Raichur*) ; A. R. Badarinarayan (Cong.-I.), (*Shimoga*) ; K. Lakkappa (Cong.), (*Tumkur*) ; T. A. Pai (Cong.), *Udipi*).

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* Speaker.   † Election held void by A. P. High Court on Sept. 21, 1978.

KERALA — 20 : P. K. Kodiyan (C.P.I.), (*Adoor — S.C.*); U. M. Sudheeran (Cong.), (*Alleppey*) ; K. P. Unnikrishnan (Cong.), (*Badagara*) ; V. A. Syed Mohammed (Cong.), (*Calicut*) ; C. K. Chandrappan (C.P.I.), (*Cannanore*) ; Vylar Ravi (Cong.), (*Chirayinkil*) ; Dr. Henry Austin, (Cong.), (*Ernakulam*) ; C. M. Stephen (Cong.-I), (*Idukki*) ; K. Ramachandran (Cong.), (*Kasargod*) ; Skariah Thomas (K. Cong.), (*Kottayam*) ; Ibrahim Sulaiman Sait (M.L.), (*Manjeri*) ; B. K. Nair (Cong.-I), (*Mavelikkara*) ; A. C. George (Cong.), (*Mukundapuram*) ; George Mathew (K. Cong.), (*Muvattupuzha*) ; K. Kunhambu (Cong.), (*Ottappalam—S.C.*) ; A. Sunna Sahib (Cong.), (*Palghat*) ; G. M. Banatwalla (M.L.), (*Ponnani*) ; N. Sreekantan Nair (R.S.P.), (*Quilon*) ; K. A. Rajan (C.P.I.), (*Trichur*) ; M. N. Govindan Nair (C.P.I.), (*Trivandrum*).

MADHYA PRADESH — 40 : K. L. Jain (R.P.I.), (*Balaghat*) ; D. P. Shah (J.P.), (*Bastar—S.T.*) ; Subhash Chandra Ahuja (J.P.), (*Betul*) ; Raghubir Singh Machand (J.P.), (*Bhind*) ; Arif Beg (J.P.), (*Bhopal*) ; Niranjan P. Kesharwani (J.P.), (*Bilaspur*) ; G. S. Mishra (Cong.-I), (*Chhindwara*) ; Narendra Singh (J.P.), (*Damoh*) ; Bharatsingh G. Chauhan (J.P.), (*Dhar — S.T.*) ; Mohan Jain (J.P.), (*Durg*) ; Madhav Rao Scindia (Ind.), (*Guna*) ; N. K. Shejwalkar (J.P.), (*Gwalior*) ; H. V. Kamath (J.P.), (*Hoshangabad*) ; Kalyan Jain (J.P.), (*Indore*) ; Sharad Yadav (J.P.), (*Jabalpur*) ; Madanlal Shukla (J.P.), (*Janjgir*) ; Bhagirath Bhanwar (J.P.), (*Jhabua—S.T.*) ; Aghan Singh Thakur (J.P.), (*Kanker—S.T.*) ; L. N. Naik (J.P.), (*Khajuraho—S.C.*) ; Vacant (*Khandwa*) ; Rameshwar Patidar (J.P.), (*Khargone*) ; Brij Lal Verma (J.P.), (*Mahasamund*) ; Shyamlal Dhurve (J.P.), (*Mandla—S.T.*) ; Dr. Laxmi Narain Pandeya (J.P.), (*Mandsaur*) ; Chhaviram Argal (J.P.), (*Morena—S.C.*) ; Narahari Prasad Sai (J.P.), (*Raigarh—S.T.*) ; Purshottam Kaushik (J.P.), (*Raipur*) ; Dr. Vasant Kumar Pandit (J.P.), (*Rajgarh*) ; Madan Tiwari (J.P.), (*Rajanandgaon*) ; Yamuna Prasad Shastri (J.P.), (*Rewa*) ; Narmadaprasad Rai (Cong.), (*Sagar—S.C.*) ; Govindram Miri (J.P.), (*Sarangarh—S.C.*) ; Sukhendra Singh (J.P.), (*Satna*) ; Normal Chandra Jain (J.P.), (*Seoni*) ; Dalpat Singh Paraste (J.P.), (*Shahdrol—S.T.*) ; Phulchand Verma (J.P.), (*Shajapur—S.C.*) ; Vacant (*Sidhi—S.T.*) ; Larang Sai (J.P.), (*Surguja—S.T.*) ; Hukumchand Kachwai (J.P.), (*Ujjain—S.C.*) ; Raghavji (J.P.), (*Vidisha*).

MAHARASHTRA — 48 : Annasaheb P. Shinde (Cong.), (*Ahmadnagar*) ; Vasant P. Sathe (Cong.-I.), (*Akola*) ; Nana Sahib Bonde (Cong.), (*Amravati*) ; Dr. Kaldate Bapu (J.P.), (*Aurangabad*) ; Sambhajirao Kakade (J.P.), (*Baramati*) ; Laxmanrao B. Mankar (J.P.), (*Bhandara*) ; Gangadhar A. Burande (C.P.I.-M.), (*Bhir*) ; Mrs. Mrinal K. Gore (J.P.), (*Bombay North*) ; Mrs. Ahilya P. Rangnekar (C.P.I.-M.), (*Bombay North Central*) ; Dr. Subramaniam Swamy (J.P.), (*Bombay North East*) ; Ram Jethmalani (J.P.), (*Bombay North West*) ; Ratansingh G. Rajda (J.P.), (*Bombay South*) ; B. C. Kamble (U.A.), (*Bombay South Central*) ; D. G. Gawai (R.P.I.-K.), (*Buldhana—S.C.*) ; Vishweshvarrao Raje (J.P.), (*Chandrapur*) ; Krishnarao Thakur (Cong.), (*Chimur*) ; Lahanu Shidava Kom (C.P.I.-M.), (*Dahanu—S.T.*) ; Vijay Kumar N. Patil (Cong.-I.), (*Dhule*) ; Sonusing D. Patil (J.P.), (*Erandol*) ; Chandrakant Ramkrishna Patil (J.P.), (*Hingoli*) ; Rajaram Shankarrao Mane (Cong.), (*Ichalkaranji*) ; Yeshwant M. Borole (J.P.), (*Jalgaon*) ; Hari D. Pundalik (J.P.), (*Jalna*) ; Mrs. Premlata Chavan (Cong.-I.), (*Karad*) ; Annasaheb Magar (Cong.), (*Khed*) ; D. B. Patil (P.W.P.), (*Kolaba*) ; Dajiba B. Desai (P.W.P.), (*Kolhapur*) ; Balasaheb Vikhe Patil (Cong.-I.), (*Kopargaon*) ; U. S. Patil (P.W.P.), (*Latur*) ; Harishankar Mahale (J.P.), (*Malegaon—S.T.*) ; Gev. M. Aawari (Cong.), (*Nagpur*) ; Keshavrao S. Dhondge (P.W.P.), (*Nanded*) ; Surupsingh H. Naik (Cong.-I), (*Nandurbar—S.T.*) ; V. G. Hande (J.P.), (*Nasik*) ; Tukkaram S. Shrangare (Cong.), (*Osmanabad — S.C.*) ; Bhausaheb Thorat (Cong.-I), (*Pandharpur—S.C.*) ; Sheshrao Deshmukh (P.W.P.), (*Parbhani*) ; Mohan Dharia (J.P.), (*Pune*) ; Madhu Dandavate (J.P.), (*Rajapur*) ; J. C. Barve (Cong.), (*Ramtek*) ; Bapusaheb Parulekar (J.P.), (*Ratnagiri*) ; Annasaheb Gotkhinde (Cong.), (*Sangli*); Y. B. Chavan (Cong.), (*Satara*) ; Swarajratan Damani (Cong.), (*Sholapur*) ; Ramchandra K. Mhalgi (J.P.), (*Thane*) ; Santhoshrao V. Gode (Cong.), (*Wardha*) ; V. P. Naik (Cong.), (*Washim*) ; Shridharrao N. Jawade (Cong.), (*Yavatmal*).

MANIPUR — 2 : N. Tombi Singh (Cong.), (*Inner Manipur*) ; K. Kaiho (J.P.), (*Outer Manipur—S.T.*).

MEGHALAYA — 2 : H. S. Lyngdoh (H. S. P. D. P.*), (Shillong) ; Purno A. Sangma (Cong.), (*Ture*).

NAGALAND — 1 : Smt. Rano M. Shaiza (U.D.F.).

ORISSA — 21 : Ramchandra Rath (Cong.-I), (*Aska*) ; Samarendra Kundu (J.P.), (*Balasore*) ; R. Jagannath Rao (J.P.), (*Berhampur*) ; Bairagi Jena (J.P.), (*Bhadrak—S.C.*) ; Shivaji Patnaik (C.P.I. — M.), (*Bhubaneshwar*) ; Aintho Sahu (J.P.), (*Bolangir*) ; Sarat Kumar Kar (J.P.), (*Cuttack*) ; Pabitra Mohan Pradhan (J.P.), (*Deogarh*) ; Devendra Satpathy (J.P.), (*Dhenkanal*) ; Pradyumna Kishore Bal (J.P.), (*Jagatsinghpur*) ; Ram Chandra Mallick (J.P.), (*Jajipur*) ; Pratap Keshari Deo (Ind.), (*Kalahandi*) ; Biju Patnaik (J.P.), (*Kendrapara*) ; Govinda Munda (J.P.), (*Keonjhar—S.T.*); Giridhar Gomango (Cong.-I), (*Koraput—S.T.*) ; Chandra Mohan Sinha (J.P.), (*Mayurbhanj—S.T.*) ; Kagapati Pradhani (Cong.-I), (*Nowrangpur—S.T.*) ; Sribatcha Digal (J.P.), (*Phulbani—S.C.*) ; P. C. Samanta Sinhar (J.P.), (*Puri*) ; Gananath Pradhan (J.P.), (*Sambalpur*) ; Devanand Amat (J.P.), (*Sundagarh—S.T.*).

PUNJAB — 13 : Dr. Baldev Prakash (J.P.), (*Amritsar*) ; D. S. Gulshan (Akali), (*Bhatinda—S.C.*) ; Balwant Singh Ramuwalia (*Akali*), (*Faridkot*) ; Mohindar Singh Sayianwala (Akali), (*Ferozepur*) ; Y. D. Sharma (J.P.), (*Gurdaspur*) ; Ch. Balbir Singh (J.P.), (*Hoshiarpur*) ; Iqbal Singh Dhillon (Akali), (*Jullundur*) ; T. Jajdev Singh (Akali), (*Ludhiana*) ; Vacant (*Patiala*) ; Bhagat Ram (C.P.I.-M.), (*Phillaur—S.C.*) ; Basant Singh Khosla (Akali), (*Ropar—S.C.*) ; Surjit Singh Barnala (Akali), (*Sangrur*) ; Mohan Singh Tur (Akali), (*Tarn Taran*).

RAJASTHAN — 24 : Shrikaran Sharda (J.P.), (*Ajmer*) ; Ramji Lal Yadav (J.P.), (*Alwar*) ; Heera Bhai (J.P.), (*Banswara — S.T.*) ; Tan Singh (J.P.), (*Barmur*) ; Sham Sunderlal (J.P.), (*Bayana—S.C.*) ; Ramkishan (J.P.), (*Bharatpur*) ; Roop Lal Somani (J.P.), (*Bhilwara*) ; H. M. Godara (J.P.), (*Bikaner*) ; S. S. Somani (J.P.), (*Chhittorgarh*) ; Daulat Ram Saran (J.P.), (*Churu*) ; Nathu Singh (J.P.), (*Dausa*) ; Bega Ram Chauhan (J.P.), (*Ganganagar—S.C.*) ; Satish Agarwal (J.P.), (*Jaipur*) ; Hukam Ram (J.P.), (*Jalore — S.C.*) ; Chaturbhuj (J.P.), (*Jhalawar*) ; K. L. Mahala (J.P.), (*Jhunjhunu*) ; Ranchor Das Gattani (J.P.), (*Jodhpur*) ; Krishna Kumar Goyal (J.P.), (*Kota*) ; Nathuram Mirdha (Cong.), (*Nagaur*) ; Amrit Nahata (J.P.), (*Pali*) ; Lalji Bhai (J.P.), (*Salumber — S.T.*) ; Meetha Lal Patel (J.P.), (*Sawai Madhopur*) ; Jagdish Prasad Mathur (J.P.), (*Sikar*) ; Ram Kanwar Berva (J.P.), (*Tonk — S.C.*) ; Bhanu Kumar Shastri (J.P.), (*Udaipur*).

SIKKIM — 1 : Chatra Bahadur Chhetri (Cong.).

TAMIL NADU—39 : O. V. Alagesan (Cong.), (*Arkonam*) ; A. Murugesan (A.I.A.D.M.K.), (*Chidambaram—S.C.*) ; K.

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* Hill State People's Democratic Party.

Mohanarangam (A.I.A.D.M.K.), (*Chengelpetta*); Smt. Parvati Krishnan (C.P.I.), (*Coimbatore*) ; G. Bhuvarahan (Cong.), (*Cuddalore*) ; K. Rama Murthy (Cong.-I), (*Dharmapuri*) ; K. Maya Thevar (A.I.A.D.M.K.), (*Dindigul*) ; K. S. Ramaswamy (Cong.), (*Gobichettipalayam*) ; K. Gopal (Cong.), (*Karur*) ; P. V. Periasamy (A.I.A.D.M.K.), (*Krishnagiri*) ; P. Ramchandran (J.P.), (*Madras Central*) ; A. V. P. Asai Thambi (D.M.K.), (*Madras North*) ; R. Venkataraman (Cong.-I), (*Madras South*) ; R. V. Swaminathan (Cong.-I), (*Madurai*) ; N. Kudanthai Ramalingam (Cong -I), (*Mayuram*) ; Vacant (*Nagapattinam—S.C.*) ; Kumari Ananthan (J.P.), (*Nagercoil*) ; P. S. Ramalingam (A.I.A.D.M.K.), (*Nilgiris*) ; C. Subramaniam (Cong.), (*Palani*) ; A. Asoka Raj (A.I.A.D.M.K.), (*Perambalur—S.C.*) ; S. Ramaswamy (A.I.A.D.M.K.), (*Periakulam*) ; K. A. Raju (A.I.A.D.M.K.), (*Pollachi—S.C.*) ; V. S. Elanchezhian (A.I.A.D.M.K.), (*Pudukkottai*); P. Ambalagan (A.I.A.D.M.K.), (*Ramanathapuram*) ; B. Devarajan (Cong.-I), (*Rasipuram—S.C.*) ; P. Kannan (A.I.A.D.M.K.), (*Salem*) ; P. Thiagarajan (A.I.A.D.M.K.), (*Sivaganga*) ; Smt. A. Jeyalakshmi (Cong.-I), (*Sivakasi*) ; S. Jagannathan (A.I.A.D.M.K.), (*Sriperumbudur—S.C.*) ; M. Arunachalam (Cong.-I), (*Tenkasi—S.C.*) ; S. D. Somasundaram (A.I.A.-D.M.K.), (*Thanjavur*) ; M. R. Lakshmi Narayanan (Cong.). (*Tindivanam*) ; K. T. Kosalram (Cong.-I), (*Triruchendur*) ; R. Kolathaivelu (A.I.A.D.M.K.), (*Tiruchengode*) ; M. Kalyanasundaram (C.P.I.), (*Tiruchirappalli*) ; V. Arunachalam (A.I.A.D.M.K.), (*Tirunelveli*) ; C. N. Viswanathan (A.I.A.D.M.K.), (*Tiruppattur*) ; V. Dhandayuthapani (J.P.), (*Vellore*) ; C. Venupogal (A.I.A.D.M.K.), (*Wandiwash*).

TRIPURA — 2 : Kirit Bikram Deb Burman (Cong.), (*Tripura-East—S.T.*) ; Sachindralal Singha (J.P.), (*Tripura West*).

UTTAR PRADESH — 85 : Shambunath Chaturvedi (J.P.), (*Agra*) ; Mangal Dev (J.P.), (*Akbarpur*) ; Nawab Singh Chauhan (J.P.), (*Aligarh*) ; Janeshwar Mishra (J.P.), (*Allahabad*) ; Dr. Murali Manohar Joshi (J.P.), (*Almora*) ; Ravindra Pratapsingh (J.P.), (*Amethi*) ; Chandra Pal Singh (J.P.), (*Amroha*) ; Brij Raj Singh (J.P.), (*Aonla*) ; Smt. Mohsina Kidwai (Cong.-I.), (*Azamgarh*) ; Charan Singh (J.P.), (*Baghpat*) ; Om Prakash Tyagi (J.P.), (*Bahraich*) ; Nanaji Deshmukh (J.P.), (*Balrampur*) ; Chandra Shekhar (J.P.), (*Ballia*) ; Ambika Prasad Pandey (J.P.), (*Banda*) ; Phirangi Prasad (J.P.), (*Bansgaon—S.C.*) ; Ram Kinkar (J.P.), (*Bara Banki — S.C.*) ; Ram Murti (J.P.), (*Bareilly*) ; Shiv Narain (J.P.), (*Basti — S.C.*) ; Mohan Lal (J.P.), (*Bijnor — S.C.*) ; Ch. Ram Gopal Singh (J.P.), (*Bilhaur*) ; Omkar Singh (J.P.), (*Budaun*) ; Mohd. Hasan Khan (J.P.), (*Bulandsahr*) ; R. N. Rakesh (J.P.), (*Chail—S.C.*); Narsingh Yadav (J.P.), (*Chandauli*) ; Ugra Sen (J.P.), (*Deoria*) ; M. P. Tripathi (J.P.), (*Domariaganj*) ; Dr. Mahadeepak Singh (J.P.), (*Etah*) ; Arjun Singh Badoria (J.P.), (*Etawah*) ; Anant Ram Jaiswal (J.P.), (*Faizabad*) ; Dayaram Shakya (J.P.), (*Farukhabad*) ; Liaquat Hussain (J.P.), (*Fatehpur*) ; Ramjilal Suman (J.P.), (*Firozabad—S.C.*), ; Jagannath Sharma (J.P.), (*Garhwal*) ; Jwala Prasad Kureel (J.P.), (*Ghatampur—S.C.*) ; Gauri Shankar Rai (J.P.), (*Ghazipur*) ; Shiv Ram (J.P.), (*Ghosi*) ; Satya Dev Singh (J.P.), (*Gonda*) ; Hardesh Bahadur (J.P.), (*Gorakhpur*) ; Tej Pratap Singh (J.P.), (*Hamirpur*) ; Mohd. Ali Khan (J.P.), (*Hapur*) ; Parmai Lal (J.P.), (*Hardoi—S.C.*) ; Dr. Bhagwan Das Rathor (J.P.), (*Hardwar—S.C.*) ; Ram Prasad Deshmukh (J.P.), (*Hathras—S.C.*) ; Ram Charan (J.P.), (*Jalaun—S.C.*) ; Multan Singh Choudhary (J.P.), (*Jalesar*); Yadavendra Dutta Dubey (J.P.), (*Jaunpur*) ; Dr. Sushila Nayar (J.P.), (*Ghansi*) ; Chandan Singh (J.P.), (*Kairana*) ; Rudra Sen Choudhary (J.P.), (*Kaiserganj*) ; R. P. Tripathi (J.P.), (*Kannauj*) ; Manohar Lal (J.P.), (*Kanpur*) ; Brij Bhushan Tiwari (J.P.), (*Khalilabad*) ; S. B. Shah (J.P.), (*Kheri*) ; Mohan Lal Pipil (J.P.), (*Khurja—S.C.*) ; Ram Dhan (J.P.), (*Lalganj—S.C.*) ; H. N. Bahuguna (J.P.), (*Lucknow*) ; Raj Keshar Singh (J.P.), (*Machhlishahr*) ; Shibban Lal Saksena (J.P.), (*Maharajganj*) ; Raghunath Singh Verma (J.P.), (*Mainpuri*) ; Mani Ram Bagri (J.P.), (*Mathura*) ; Kailash Prakash (J.P.), (*Meerut*) ; Faquir Ali Ansari (J.P.), (*Mirzapur*) ; Ram Lal Rahi (J.P.), (*Misrikh—S.C.*) ; Ramlal Kureel (J.P.), (*Mohanlalganj—S.C.*) ; Ghulam Mohd. Khan (J.P.), (*Moradabad*) ; Sayed Murtaza (J.P.), (*Muzaffarnagar*) ; Bharat Bhushan (J.P.), (*Naini Tal*) ; Ram Dhari Shastri (J.P.), (*Padrauna*) ; Mrs. Kamala Bahuguna (J.P.), (*Phulpur*) ; Mohd. Shamsul Hasan Khan (J.P.), (*Pilibhit*) ; Roop Nath Singh Yadav (J.P.), (*Pratapgarh*) ; Raj Narain (J.P.), (*Rai Bareli*) ; Rajender Kumar Sharma (J.P.), (*Rampur*) ; Sheo Sampath Ram (J.P.), (*Robertsganj—S.C.*) ; Rasheed Masood (J.P.), (*Saharanpur*) ; Ram Sagar (J.P.), (*Saidpur—S.C.*) ; R. N. Kushwaha (J.P.), (*Salimpur*) ; Smt. Shanti Devi (J.P.), (*Sambhal*) ; Ganga Bhakt Singh (J.P.), (*Shahabad*) ; Surendra Vikram (J.P.), (*Shahjahanpur*) ; Hargovind Verma (J.P.), (*Sitapur*) ; Zulfikar Ullah (J.P.), (*Sultanpur*) ; T. S. Negi (J.P.), (*Tehri-Garwal*) ; Raghavendra Singh (J.P.), (*Unnao*) ; Chandra Shekhar Singh (J.P.), (*Varanasi*).

WEST BENGAL — 42 : Pijush Tirkey (R.S.P.), (*Alipurduars—S.T.*) ; P. C. Sen (J.P.), (*Arambagh*) ; Robin Sen (C.P.I.-M.), (*Asansol*) ; Palas Barman (R.S.P.), (*Balurghat — S.C.*) ; Dr. Bijoy Mondal (J.P.), (*Bankura*) ; Chitta Basu (F.B.), (*Barasat*) ; Saugata Roy (Cong.), (*Barrackpore*) ; M. A. Hannan Alhaj, (J.P.), (*Basirhat*) ; Tridib Chaudhuri (R.S.P.), (*Berhampore*) ; Gadadhar Saha (C.P.I.—M), (*Birbhum—S.C.*) ; Dr. Sardish Roy (C.P.I.—M), (*Volpur*) ; Rajkrishna Dawn (J.P.) (*Burdwan*) ; Dr. P. C. Chunder (J.P.), (*Calcutta N-E*) ; Bijoy Singh Nahar (J.P.),. (*Calcutta N-W.*) ; Dilip Chakravarty (J.P.), (*Calcutta-South*) ; Samar Guha (J.P.), (*Contai*) ; A. R. Pradhan (F.B.), (*Cooch Behar—S.C.*) ; K. B. Chettri (Cong.), (*Darjeeling*) ; Jyotirmoy Bosu (C.P.I.—M.), (*Diamond Harbour*) ; Asoke Krishna Dutt (J.P.), (*Dum Dum*) ; Krishna Chandra Halder (C.P.I.—M.), (*Durgapur — S.C.*) ; Bejoy Modak (C.P.I.—M.), (*Hooghly*); Samar Mukherjee (C.P.I.—M), (*Howrah*) ; Somnath Chatterjee (C.P.I.—M.), (*Jadavpur*) ; K. N. Das Gupta (J.P.), (*Jalpaiguri*) ; Sasankasekhar Sanyal (C.P.I.—M), (*Jangipur*) ; Jadunath Kisku (C.P.I.—M.), (*Jhargram—S.T.*) ; Sasti Kumar Sarkar (J.P.), (*Joynagar—S.C.*) ; Dhirendra Nath Basu (Cong.), (*Katwa*) ; R. P. Das (C.P.I.—M.), (*Krishnagar*) ; Dinesh Joarder (C.P.I.—M.), (*Malda*) ; Mukunda Mondal (C.P.I.—M.), (*Mathurapur—S.C.*) ; Sudhir K. Ghosal (J.P.), (*Midnapore*) ; Syed Kazim Ali Mirza (J.P.), (*Murshidabad*) ; Smt. Bibha Ghosh Goswami (C.P.I.—M.), (*Nabadwip—S.C.*). Kum. Abha Maiti (J.P.), (*Panskura*) ; Chittaranjan Mahata (F.B.), (*Purulia*) ; Mohammed Hayat Ali (J.P.), (*Raiganj*) ; Dinen Bhattacharya (C.P.I.—M.), (*Serampore*) ; Sushilkumar Dhara (J.P.), (*Tamluk*) ; S. P. Bhattacharya (C.P.I.—M.), (*Uluberia*) ; A. K. Saha (C.P.I.—M.), (*Vishnupur—S.C.*)

ANDAMAN AND NICOBAR ISLANDS — 1 : Manoranjan Bhakt (Cong.-I.)

ARUNACHAL PRADESH—2: Bakin Pertin (Cong.-I.), (*Arunachal Pradesh-E*) ; K. Rinchin Khandu (Cong.), (*Arunachal Pradesh-W*).

CHANDIGARH — 1 : Krishan Kant (J.P.).

DADRA AND NAGAR HAVELI — 1 : Ramubhai R. Patel (Ind.).

DELHI — 7 : Sikander Bhakt (J.P.), (*Chandni Chowk*) ; Kanwarlal Gupta (J.P.), (*Delhi Sadar*) ; Kishore Lal (J.P.), (*East Delhi*) ; S. N. Sarsonia (J.P.), (*Karol Bagh—S.C.*) ; Atal Bihari Vajpayee (J.P.), (*New Delhi*) ; Ch. Brahm Prakash (J.P.), (*Outer Delhi*) ; V. K. Malhotra (J.P.) (*South Delhi*).

GOA, DAMAN & DIU — 2 : E. M. Faleiro (Cong.), (*Marmagao*) ; Shivram A. Kasar (M.G.P.), (*Panaji*).

LAKSHADWEEP — 1 : P. M. Sayeed (Cong.-I).

MIZORAM — 1 : Dr. R. Rothuama (Ind.).

PONDICHERRY — 1 : A. Bala Pajanor (AIADMK).

NOMINATED ANGLO INDIANS — 2 : A. E. T. Barrow (Ind.) ; Rudolph Rodrigues (Ind.).

ESTIMATES COMMITTEE (1978-79) : Chairman : Satyendra Narayan Sinha. **Members :** V. Arunachalam, Dilip Chakravarty, Yashwant Borole, Ganga Bhakt Singh, K. S. Chawda, Smt. Mrinal Gore, Tulsidas Dasappa, S. Nanjisha Gowda, Smt. V. Jeyalakshmi, Basant Singh Khalsa, Sarat Kar, Nihar Laskar, Mahi Lal, Mukhtiar Singh Malik, Amrit Nahata, M. N. Govindan Nair, S. B. Patil, D. B. Patil, Mohd. Shafi Qureshi, K. Vijaya Bhaskara Reddy, Dr. Saradish Roy, N. K. Shejwalkar, Annasaheb P. Shinde, Ugrascn, K. P. Unnikrishnan, Shankersinghji Vaghela, Mritunjay Prasad, Roop Nath Singh Yadav, Vinayak Prasad Yadav.

PUBLIC ACCOUNTS COMMITTEE (1978-79) : Chairman : P. V. Narasimha Rao. **Members :** Balak Ram, Brij Raj Singh, Halimuddin Ahmed, Ashoke Krishna Dutt, Kanwar Lal Gupta, C. K. Chandrappan, B. P. Mandal, R. K. Mhalgi, Dr. Laxminarayan Pandeya, Gauri Shankar Rai, M. Satyanarayan Rao, Vasant Sathe, Smt. Leela Damodara Menon, M. Kadershah, K. Gopal, Vijay Kumar Malhotra, Devendra Nath Dwivedi, Sita Ram Kesri, Dr. Bhai Mahavir, B. Satyanarayana Reddy and Gianchand Totu.

PUBLIC UNDERTAKINGS COMMITTEE (1978-79): Chairman: Shri Jyotirmoy Bosu. **Members :** O. V. Alagesan, Maganti Ankineedu, Smt. Chandravati, Tridib Chaudhuri, Hitendra Desai, Anant Ram Jaiswal, L. L. Kapoor, K. Lakkappa, Dharam Sinhbhai Patel, Raghavji, Padmacharan Samantasinhar, Bhanu Kumar Shastri, Dr. Subramaniam Swamy, Madhav Prasad Tripathi, S. W. Dhabe, K. N. Dhulap, H. B. Mahida, Murasoli Maron, Deorao Patil, Era Sezhiyan, Viren J. Shah.

LEGISLATIVE ASSEMBLIES AND LEGISLATIVE COUNCILS

ANDHRA PRADESH LEGISLATIVE ASSEMBLY

Speaker : D. Kondaiah Choudary.

Dy. Speaker : K. Prabhakara Reddy.

No. of seats : 295.

Party position : Congress (I.) : 205 ; Janata Party : 57 ; Congress : 10 ; Communist Party (Marxist) : 7 ; Communist Party : 6 ; Majlis-Ittehad-ul-Muslimeen : 3 ; Independents : 4 ; Vacant : 3 ; Women members : 10.

R. M. Manohar (Cong.-I.), (*Achampet*) ; K. Dhanaraju (Cong.-I.), (*Achanta*) ; K. B. Krishnamurthy (Cong.-I.), (*Addanki*) ; C. Ramachandra Reddy (Cong.-I.), (*Adilabad*) ; H. Satyanarayana (Cong.-I.), (*Adoni*) ; S. Pochaiah (Cong.-I.), (*Alair*) ; Ram Bhupal Reddy (J.P.), (*Alampur*) ; S. Venkata Reddy (Cong.-I.), (*Alamuru*) ; G. Thimma Reddy (Ind.), (*Allagadda*) ; D. Venkatapathi (Cong.-I.), (*Allavaram*) ; G. Sundara Ramaiah (Cong.-I.), (*Allur*) ; Eranna (Cong.-I.), (*Alur*) ; P. Sreerama Murthy (Cong.-I.), (*Amadalavalasa*) ; P. V. Sreerama Rao (J.P.), (*Amalapuram*) ; Veera Reddy (Cong.-I.), (*Amarchinta*) ; K. Govind Rao (C.P.I.), (*Anakapalli*) ; B. T. L. N. Choudary (Cong.-I.), (*Anantapur*) ; P. Ammi Reddy (J.P.), (*Anaparthi*) ; C. Rajanarasimha (Cong.-I.), (*Andole*) ; Santosh Reddy (Cong.-I.), (*Armoor*) ; B. Krishna (Cong.-I.), (*Asafnagar*) ; D. Narasaiah (Cong.-I.), (*Asifabad*) ; B. Sundara Rami Reddy (Cong.-I.), (*Atmakur*) ; A. Vengala Reddy (Cong.-I.), (*Atmakur*) ; I. Rama Krishnan Raju (Cong.-I.), (*Attili*) ; M. V. Krishna Rao (Cong.-I.), (*Arvanigadda*).

V. S. Ramakrishna Rao (J.P.), (*Badvel*) ; V. Ranga Rao (J.P.), (*Bandar*) ; M. Sreenivasa Rao (Cong.-I.), (*Banswada*) ; K. Prabhakara Rao (Cong.-I.), (*Baptla*) ; M. Yerraiah Reddy (C.P.I.-M.), (*Bhadrachalam*) ; D. Jagannadha Raju (Cong.-I.), (*Bheemunipatnam*) ; K. V. Narasimha Raju (Cong.-I.), (*Bhimavaram*) ; K. Appadu Dora (Cong.), (*Bhogapuram*) ; K. Narasimha Reddy (Cong.-I.), (*Bhongir*) ; T. Amar Singh (Cong.-I.), (*Boath*) ; K. Venkata Kurmi Naidu (J.P.), (*Bobbili*) ; Gulam Samdani (Cong.-I.), (*Bodhan*) ; A. Rajaram (Cong.-I.), (*Buggaram*) ; P. Ramachandraiah (Cong.), (*Burgampahad*) ; V. Padma Raju (Cong.-I.), (*Burugupudi*) ; N. Ramulu (Cong.-I.), (*Chalakurthy*) ; N. Chandrabalu Naidu (Cong.-I.), (*Chandrajgiri*) ; Mohd. Amanullah Khan (M.I.U.M.), (*Chandrayanagutta*) ; S. S. Owaisi (M.I.U.M.), (*Charminar*) ; N. Yetiraja Rao (Cong.-I.), (*Chennur*) ; G. Siddaiah (Cong.-I.), (*Cheriyal*) .; Ch. Pratapalingam (J.P.), (*Chevella*) ; S Sambaiah (Cong.-I.), (*Chilakalaripet*) ; C. Narayana (Cong.-I.), (*Chinnur*) ; G. Venkateswara Rao (Cong.-I.), (*Chintalapudi*) ; D. Kondala Rao (Cong.), (*Chintapalli*) ; M. Venkatesawarlu (Cong.-I.), (*Chirala*) ; N. P. Venkateswara Choudury (J.P.), (*Chittoor*) ; E. Seetharama Sastry (J.P.), (*Chodavaram*) ; N. Sreepathi Rao (Cong.-I.), (*Choppadandi*) ; Ch. Syamala Rao (Cong.-I.), (*Chupurupalli*) ; G. Ranga Reddy (Cong.-I.), (*Cuddapah*) ; K. Obul Reddy (Cong.I.), (*Chumbum*).

B. Gnanaprakasam (Cong.-I.), (*Darsi*) ; N. Charles (Cong.-I.), (*Dendulur*) ; Ch. Lakshmaiah (J.P.), (*Dettipet*) ; D. Ravindra Naik (Cong.I.), (*Deverkonda*) ; G. Anantha Reddy (Cong.-I.), (*Dharmavaram*) ; K. E. Krishna Murthy (Cong.-I.), (*Dhone*) ; Balareddy Antha Reddy (Cong.-I.), (*Dichpalli*) ; A. Lingaiah (Cong.-I.), (*Dommat*) ; R. Surendar Reddy (Cong.-I.), (*Dornakal*) ; G. Vedantha Rao (Cong.-I), (*Duggirala*) ; V. Sanyasi Naidu (Cong), (*Elamanchili*) ; N. Suryaprakasa Rao (Cong -I), (*Eluru*) ; K Narasayya (Cong.-I.), (*Etcherla*) ; D. K. Satya Reddy (J.P.), (*Gadwal*) ; V. Narayanappala Naidu (J.P.), (*Gajapatipatnam*) ; P. Sundarayya (C.P.I.-M.), (*Gannavaram*) ; P. Ranga Reddy (J.P.), (*Giddalur*) ; G. Rama Swamy (Cong.-I.), (*Gnanpur*) ; K. Venkata Ramaiah (Cong.-I.), (*Gooty*) ; Smt. D. Sarojini Devi (Cong.-I.), (*Gopalapuram*) ; N. Bayapa Reddy (Cong.-I.), (*Gorantla*) ; K. Satyanarayana Rao (Cong.-I.), (*Gudivada*) ; P. Prakasa Rao (Cong.-I.), (*Gudur*) ; L. Eswara Rao (Cong.-I.), (*Guntur I*) ; Vecranjaneya Sarma (Cong.-I.), (*Guntur II*) ; G. Mallikarjuna Rao (Cong.-I.), (*Gurzala*) ; T. Hayagrivachari (Cong.-I.), (*Hanamkonda*) ; K. A. Narasimham Bhukta (Cong.-I.), (*Harishchandrapuram*) ; Smt. Lakshmikanthamma (J.P.), (*Himayatnagar*) ; K. Thippa Swamy (Cong.-I.), (*Hindupur*) ; D. Venkata Rao (Cong.-I.), (*Huzarabad*).

Smt. Sumitra Devi (Cong.-I.), (*Ibrahimpatnam*) ; B. Venkatesam Sarma (J.P.), (*Ichapuram*) ; D. Chinna Mallaiah (C.P.I.), (*Indurthi*) ; N. Narasappa (Cong.-I.), (*Jadcherla*) ; D. Surendar Rao (Cong.-I.), (*Jagtial*) ; P. Padmanabhan (Cong.-I.), (*Jaggampeta*) ; B. Rama Rao (Cong.-I.), (*Jaggayyapet*) ; M. Ramanatha Reddy (J.P.), (*Jammalamaddugu*) ; K. Vardha Reddy (Cong.-I.), (*Jangaon*) ; Gangaram (Cong.-I.), (*Jukkal*) ; P. Ammi Raju (J.P.), (*Kadiam*) ; Nizam Vali (Cong.-I.), (*Kadiri*) ; K. Bapi Raju (Cong.-I.), (*Kaikaluru*) ; Janardhan Reddy (Cong.-I.), (*Kairatabad*) ; M. Swamy (Cong.-I.), (*Kukinada*) ; S. Jaipal Reddy (J.P.), (*Kalwakurthi*) ; H. Narasappa (J.P.), (*Kalyandrug*) ; P. Janardhan Reddy (J.P.), (*Kamalapur*) ; P. Siva Reddy (Cong.-I.), (*Kamalapuram*) ; B. Balaiah (Cong.-I), (*Kamareddy*) ; D. Kondaiah Chowdary (Cong.-I), (*Kandukur*) ; B. Rama Subba Reddy (Cong.-I.), (*Kanigiri*) ; N. Kondaiah (Cong.-I), (*Karimnagar*) ; Shiv Lal (Cong.-I), (*Karwan*) ; K. Yanadi Reddy (Cong.-I), (*Kavali*) ; K. Anantha Reddy (Cong.-I), (*Khamman*) ; Ambajee (Cong.-I), (*Khanapur*) ; A. Vasudeva Rao (J.P.), (*Kodad*) ; Gurunatha Reddy (Cong.-I), (*Kodangal*) ; D. Muniswamy (Cong.), (*Kodumur*) ; N. Venkata Subbaiah (J.P.), (*Kodur*) ; K. Anki Reddy (J.P.), (*Koilkuntla*) ; K. Venkateswara Rao (Cong.), (*Kollapur*) ; G. Pattabhi Ramaswamy (Cong.-I.), (*Kondepi*) ; M. V. S. Subba Raju (J.P.), (*Kothapeta*) ; V. Narasimha Rao (Cong.-I.), (*Kothuru*) ; P. Ramachandra Reddy (Cong.-I.), (*Kovur*) ; Munshi Abdul Aziz (Cong.-I.), (*Kovvur*) ; E. Subba Rao (J.P.), (*Kuchinapudi*) ; R. R. Doraswamy Naidu (Cong.-I.), (*Kuppam*) ; Mohd. Ibrahim Khan (Cong.-I.), (*Kurnool*).

G. R. Subba Reddy (Cong.-I.), (*Lakkireddipalli*) ; Ch. Narapa Reddy (Cong.-I.), (*Macherla*) ; Y. Thimma Reddy (Cong.-I.), (*Madakasira*) ; G. V. Narayana Reddy (Cong.-I.); (*Madanapalli*) ; B. Prasada Rao (Cong.-I.), (*Madhira*) ; K. Ramu Naidu (Cong.-I.), (*Madugula*) ; J. Janardhan Reddy (Cong.-I.), (*Mahabubabad*) ; Shiv Prasad (Cong.-I.), (*Maharajgunj*) ; M. Ram Reddy (Cong.-I.), (*Mahbubnagar*) ; K. Prabhakara Reddy (J.P.), (*Malakpet*) ; B. Niranjan Rao (J.P.), (*Malleswaram*) ; G. V. Rathaiah (J.P.), (*Mangalagiri*) ; C. Narayana Reddy (Cong.-I.), (*Manthani*) ; P. Subbaiah (C.P.I.), (*Markapur*) ; J. Chandramaoli (J.P.), (*Martur*) ; S. Lakshma Reddy (Cong.-I.), (*Medak*) ; Dr. M. Chenna Reddy (Cong.-I.), (*Medchal*) ; V. Venkataswara Rao (Cong.-I.), (*Metpalli*) ; A. Lakshminarayana (C.P.I.-M.), (*Miryalguda*) ; Gaddana (Cong.), (*Mudhole*) ; P. Koteswara Rao (Cong.-I.), (*Mudenepalli*) ; P. Jagan Naik (Cong.-I.), (*Mulug*) ; M. S. Vishnuprasad Rao (Cong.-I.), (*[illegible]*) ; P. Govardhan Reddy (Cong.-I.), (*Mudgole*) ; Narasimha Reddy (J.P.), (*Mushirabad*) ; G. Eshwar (Cong.-I.), (*Myadaram*) ; D. L. Ravindra Reddy (Cong.-I.), (*Mydukur*) ; Ch. Venkata Rao (Cong.-I.), (*Mylavaram*).

N. Ganapathi Rao (Cong.-I.), (*Nagaram*) ; R. Chenga Reddy (Cong.-I.), (*Nagari*) ; S. Vijayarama Raju (J.P.), (*Naguru*) ; Srinivasa Rao (Cong.-I.), (*Nagar Kurnool*) ; N. Raghava Reddy (C.P.I.-M.), (*Nakrekal*); G. Mohan Reddy (Cong.-I.), (*Nalgonda*) ; A. Veerappa (Cong.-I.), (*Nallamada*) ; M. Venkateswara Rao (J.P.), (*Nandigama*) ; B. Seshasayana Reddy (Cong.-I.), (*Nandikotkur*) ; Ch. Vithal Reddy (C.P.I.), (*Narasapur*) ; P. Seshavataram (Cong.-I.), (*Narasapur*) ; K. V. K. Reddy (Cong.), (*Narasaraopet*) ; B. Gopatrudu (Cong.), P. Rajam (Cong.-I.), (*Narella*) ; M. Omkar (C.P.I.-M.), (*Narsampet*) : Ch. Vithal Reddy (C.P.I.), (*Narasapur*) ; P. Seshavataram (Cong.-I.), (*Narasapur*) ; K. V. K. Reddy (Cong.), (*Narasaraopet*) ; S. Shiv Rao (Cong.-I), (*Narayankhed*) ; M. Omkar (C.P.I.-M), (*Narsampet*) ; B. Gopatrudu (Cong.), (*Narsipatnam*) ; P. Rajam. (Cong.-I), (*Narella*), K. V. Subba Reddy (Cong.-I), (*Nellore*) ; Smt. G. Dhanasuryavati (C.P.I.-M.), (*[illegible]*) ; P. Ganga Reddy (Cong.-I.), (*Nirmal*) ; A. Kishandas (Cong.-I), (*Nizamabad*) ; P. Venkata Rao (Cong.-I), (*Nuzvid*) ; Dr. (Smt.) S. Jee nam Naidu (Cong.-I), (*Ongole*).

G. Appala Naidu (J.P.), (*Paderu*) ; V. [illegible] narayana (Cong.-I.), (*Palacole*) ; G. Rajaram (C (*Palakonda*) ; K. Rajaratnam (Cong.-I.), (*Pa* [illegible] *Palamaner*) ; Ayyapu Reddy (J.P.), (*Panyam*) ; S. R. Murthy (Cong.), (*Paravada*) ; M. Rao (Cong.-I.), (*Parcher*) ; Ahmed Shareef (C (*Pargi*) ; B. Sammaiah (Cong.-I.), (*Parkal*) ; Ch. P ram Naidu (J.P.), (*Parvatipuram*) ; K. Mohan (Cong.-I.), (*Patapatnam*) ; K. B. Narasappa (C (*Pattikonda*) ; M. Adeyya (Cong.-I.), (*Pavaka* G. Ramaswamy Reddy (J.P.), (*Pe* G. Raji Reddy (Cong -I.), (*Peddapalli*) ; V. Murthy (Cong.-I.), (*Peddapuram*) ; Vacant (*P* J. Ventakeswara Rao (Cong.-I.), (*Penugonda*) ; S. Nara Reddy (Cong.-I), (*Penukonda*) ; M. Saifulla Baig (Cong. I (*Pileru*) ; K. V. Chandra Mohan Rao (Cong.-I.), (*Pitha ram*) ; R. Nagabhushanam (Cong.-I.), (*P* G. Nageswara Rao (Cong.-I), (*Ponnur*) ; K. [illegible] Reddy (Cong.-I.), (*Pratipal*) ; M. Padmanabhan [illegible] ; R. G. [illegible] Reddy (Cong.-I.), (*[illegible]*) ; Y. S. Rajasekhara Reddy (Cong.-I.), (*Pulivendla*) ; K. V. P (Cong.-I.), (*Punganur*) ; K. B. Siddayya (J.P.), (*P*

Smt. T. Satyavathi (Cong.-I.), (*Rajahmundry*) ; Smt. K. Prabhavathamma (Cong.-I.), (*Rajampet*) ; P. Apparao (Cong.-I.), (*Ramachandrapuram*) ; K. Papaiah (Cong.-I.), (*Ramannapet*) ; R. Mutyam Reddy (Cong.-I.), (*Ramayampet*) ; N. V. R. Naidu (Cong.-I.), (*Rapur*) ; S. Palekondrayudu (Cong.-I.), (*Rayachoty*) ; K. B. Chennamallappa (Cong.-I.), (*Rayadrug*) ; K. Satyanarayana (C.P.I.-M.), (*Repalle*); R Ramalinga Raju (Cong -I), (*Razole*); S. R. I. P. S. Veerappa Raju (C.P.I.), (*Salur*) ; M. Venkata Rama (Cong.-I.), (*Sampara*) ; Narasimha Reddy (Ind.), (*Sangareddy*) ; S. Ram Das (Cong.-I.), (*Sanathnagar*) ; V. Y[illegible]ah (Cong.-I.), (*Santhanuthalapadu*) ; Ch. V. Sesha Reddy (Cong.-I.), (*Sarvepalli*) ; P. Sambasiva Raju (Cong.-I.), (*Sathivada*) ; J. Venkateswara Rao (Cong.-I), (*Satt* C. Dass (Cong.-I.), (*Satyavedu*) ; L. Narayana (J.P.), (*Secunderabad*) ; B. Machinder Rao (J.P.), (*S[illegible] Cantt.*) ; B. L. Kistaiah (Cong.-I), (*Shadnagar*) ; B. Seetharamaiah (Cong.-I), (*Shujatnagar*) ; Ch. Janga Reddy (J.P.), (*Shyampet*) ; A. Madan Mohan (Cong.-I.), (*Siddipet*) ; Smt. B. Rukmini Devi (J.P.), (*Singanamala*) ; Ch. Rajeshwara Rao (C.P.I.), (*Sricilla*) ; K. V. Keshavulu (Cong.-I.), (*Sirpur*) ; G. Latchanna (J.P.), (*Sompeta*) ; Ch. Lakshminarayana (J.P.), (*Srikakulam*) ; V. Su[illegible] (Cong.-I.), (*Srikalahasti*) ; D. Sanyasi Dora (Cong.-I.), (*Srungavarapukota*) ; P. Venkata Subbiah (Cong.-I.), (*Sullurpet*) ; A. Parandhamulu (Cong.-I.), (*S*

Ch. V. P. Murthy Raju (Cong.-I.), (*Tadepalli* T. Amruta Rao (Cong.), (*Tadikonda*) ; D. Venkata R (Cong.-I.), (*Tadpatri*) ; B. Suryanarayana (J.P.), (*Tall* ; M. [illegible] Rao (Cong.-I.), (*T[illegible]*) ; K. A (Cong.-I), (*Tanuku*) ; B. Narayana Swamy (J.P.), (*Tekkali*) ; Smt. D. Indira (J.P.), (*Tenali*) ; A. Mo Reddy (Cong.-I), (*Thamballapalle*) ; V. Varada [illegible] (Cong-I.), (*Therlam*) ; Smt. M. Swarajyam (C.P.I.-M.), (*Thungathurthi*) ; A. Eswara Reddy (Cong.-I.), (*Tirupat* V. Adam (Cong.-I.), (*Tiruvuru*) ; Smt. M. N. Vija lakshmi Devi (Cong.-I.), (*Tuni*); M. Venkaiah Naidu (J.P.), (*Udayagiri*) ; G. [illegible] Rao (Cong.-I.), (*U[illegible]*) ; K. Satyanarayana (Cong.-I), (*Unguturu*) ; [illegible] (Cong.-I), (*Urava[illegible]konda*) ; K. V. R. S. Padmanabha Raju (Cong.-I.), (*Uttarapalli*) ; N. Amaranatha Reddy (Cong.-I.), (*Vayalpad*) ; N. Sreenivasulu Reddy (Cong.-I.), (*V[illegible]tagiri*) ; Y. Venkata Rao (Cong.-I.), (*Vemur*) ; R. A gam (J.P.), (*Vepanjeri*) ; V. B. Thirumalayya (Cong.-I.), (*Vicarabad*); N. Bhaskar Rao (Cong.-I.), (*Vijayawada—E.*); P. Chinna (Cong.-I.), (*Vijayawada—W*); A. Venkateswarlu (J.P.), (*Vinukonda*) ; S. Alwar Dass (Cong.-I.), (*Visakhapatnam—I*) ; N. S. N. Reddy (J.P.), (*Visakhapatnam—II*); P. A. Ganapathi Raju (J.P.), (*Vizianagaram*) ; M. Babu Paramkusum (J.P.), (*Vunukuru*) ; V. Sobhanadreeswara Rao (J.P.), (*Vuyyuru*) ; Jaya Ramulu (Cong.-I.), (*Wanaparthy*) ; A. Buchhaiah (Cong.-I.), (*Warangal*) ; M. Jagannadham (J.P.), (*Warthannapet*) ; Baquer Agha (M.I.U.M.), (*Yakutpura*) ; Ch. Yerriah (Ind.), (*Yellandu*) ; T. Bala Gound (Cong.-I.), (*Yellareddy*) ; G. Prakasa Rao (Cong.-I.), (*Yellavaram*) ; Hanumantha Reddy (Cong.-I.), (*Yemmiganur*) ; M. Baga Reddy (Cong.-I.), (*Zahirabad*) ; O. H. Pedro (*Anglo-Indian Nominee*).

ANDHRA PRADESH LEGISLATIVE COUNCIL

Chairman : Vacant ; *Deputy Chairman :* Syed Mukassir Shah ; *Secretary :* K. Sriramachari.

Strength : 90 ; An estimate of Party position in the Council is as follows : Congress-I.—29 ; Congress—15 ; Janata Party—9 ; Communist Party of India—2 ; Communist Party of India (Marxist)—1 ; Progressive Democratic Front — 4 ; Independents — 8 ; Vacant — 22 ; Women members — 8.

Legislative Assembly (31) : V. Venkatanarayana (Cong.-I.) ; Kammili Appa Rao (Cong.) ; V. Krishnamurthy Naidu (Cong.-I.) ; Mir Akbar Ali Nasiri (Cong.) ; Smt. T. N. Sadalakshmi (J.P.) ; B. Ram Dev (Cong.-I.) ; Y. Adinarayana Reddy (Cong.-I.) ; K. Rosaiah (Cong.) ; K. Subba Rao (C.P.I.) ; A. Bapineedu (Cong.-I.) ; Chebrolu Hanumaiah (Cong.-I.) ; K. L. Mahendra (C.P.I.) ; Y. Mahanandi Reddi (Cong.-I.); V. Nageswara Rao (Cong.-I.); G. Ramchandra Reddy (Cong.) ; Smt. J. M. Rajamani Devi (Cong.-I.) ; R. Narapa Reddy (Cong.) ; T. Musalayya (Cong.) ; Smt. B. Sarojini Pulla Reddy (Cong.-.I.) ; T. Venkatappaiah (J.P.) ; Bhavanam Venkatram Reddy (Cong.-I.) ; M. M. Hashim (Cong.-I.) ; N. Janardhana Reddy (Cong.-I.) ; K. Satyanarayana Raju (Cong.-I.) ; G. V. Sudhakara Rao (Cong.-I.); P. V. Chowdary (Cong.-I.); Smt. Ch. Santhosham (Cong.-I.) ; G. Venkataswamy (Cong.-I.) ; M. Hanumantha Rao (C.P.I-M) ; Smt. Kumud B. Naik (J.P.) ; T. Panchajanyam (Cong.).

Local Authorities (31) : Syed Mukassir Shah (Cong.), (*Adilabad*) ; Vacant, (*Anantapur*) ; Vacant, (*Chittoor*) ; Vacant, (*Chittoor*) ; Vacant, (*Cuddapah*) ; Vacant, (*Godavari-East*) ; Vacant, (*Godavari-East*) ; Vacant, (*Godavari-West*) ; Vacant, (*Godavari-West*) ; Vacant (*Guntur*), Vacant, (*Guntur*) ; Vacant, (*Hyderabad*) ; Vacant, (*Hyderabad*) ; Engati Gopal Rao (Cong.-I.), (*Karimanagar*) ; Vacant, (*Khammam*) ; Vacant, (*Krishna*); Vacant, (*Krishna*) ; Vacant, (*Kurnool*) ; Vacant, (*Kurnool*); Vacant, (*Mahboobnagar*) ; Vacant (*Mahboobnagar*) ; Vacant, (*Medak*) ; V. Purushotham Reddy (J.P.), (*Nalgonda*) ; Vacant), (*Nellore*) ; A. V. Narayana Reddy (Cong.-I.), (*Nizamabad*) ; Vacant, (*Prakasham*) ; G. Sreeramulu Naidu (Cong.-I.), (*Srikakulam*) ; Venkatagopalakrishna Rao (Cong.), (*Srikakulam*) ; Pusapati L. Narasimha Raju (Cong.), (*Visakhapatnam*) ; Ruthala Latchapatrudu (Cong.), (*Visakhapatnam*) ; Vedavalli Venkat Reddy (Cong.-I.), (*Warangal*.)

Graduates (8) : T. Bullaiah (Ind.), (*Circars Central*) ; P. V. Chalapathi (J.P.), (*Circars North*) ; J. Yegnanarayana (J.P.), (*Circars South*) ; V. Rama Rao (J.P.), (*Hyderabad*) ; K. Keshava Rao (Cong.-I.), (*Hyderabad*) ; A. Sanjeeva Reddy (Cong.), (*Rayalaseema-East*) ; D. Surya Prakash Reddy (J.P.), (*Rayalaseema-West*) ; T. Panchajanyam (Cong.), (*Telangana*) ; V. Jagapati Rao (Ind.), (*Telangana*).

Teachers (8) : D. Sivarama Raju (Cong.), (*Circars Central*) ; M. Bala Krishnamma (P.D.F.), (*Circars North*) ; M. J. Manikya Rao (P.D.F.), (*Guntur*) ; K. Koteswara Rao (P.D.F.), (*Krishna*) ; M. Madhava Rao (J.P.), (*Rayalaseema-East*) ; P. Bhujanga Rao (P.D.F.), (*Rayalaseema-West*) ; S. Himavantha Rao (Ind.), (*Telangana-East*) ; A. Syamasundera Rao (Ind.), (*Telangana-West*).

Nominated (12) : Hafiz Abu Yusuf (Cong.-I.) ; A. Chakrapani (Cong.-I.) ; K. Venkateswara Rao (Cong.) ; Payam Neenaiah (Cong.) ; Smt. Roda Mistry (Cong.-I.) ; Abdul Rahman Khan (Cong.-1) ; Pragada Kotaiah (Cong.) ; Amar Singh Rathod (Cong.-I.) ; Smt. Uma Devi Venkata Ram Reddy (Ind.) ; Smt. Samyukta Bullayya (Ind.) ; Boyi Bheemanna (Ind.) ; N. Sreeram Murthy.

ARUNACHAL PRADESH LEGISLATIVE ASSEMBLY

Electorate : 239,945 ; Votes polled : 164,584.

Speaker : Padi Yubbe ; *Dy. Speaker :* Tadik Chije.

Party position : No. of seats : 33 ; Janata : 24 ; Peoples Party of Arunachal : 8 ; Independent : 1.

Members : Prem Khandu Thungon (J.P.); Sobeng Tayeng (J.P.) ; Gegong Apang (J.P.) ; Nokmey Namati (J.P.) ; Tadar Tang (J.P.) ; Karma Wangchu (J.P.) ; Tashi Khandu (J.P.) ; Rinchin Kharu (J.P.) ; Donglo Sonam (J.P.) ; Kameng Dolo (J.P.) ; Chera Talo (J.P.) ; Tar;a Sinda (J.P.) ; Nido Techi (J.P.) ; Tadak Dulom (J.P.) : Tara Payeng (P.P.A.) ; Lijum Ronya (P.P.A.) ; Boken Ette (J.P.) ; Tomo Riba (P.P.A.)' ; Sutem Tasung (P.P.A.) ; Onyok Rome (P.P.A.) ; Tade Tacho (Ind.) ; Aken Lego (P.P.A.) ; Chow Tewa Mien (J.P.) ; Jungpum Jugli (P.P A.); Tengam (J.P.) ; Sijen Kongkang (P.P.A.) ; Noksong Boham (J.P.) ; Wangnam Wangshu (J.P.) ; Kapriso Krong (J.P.) ; Pisa Tapiak (J.P.) ; Sibo Kai (J.P.).

ASSAM LEGISLATIVE ASSEMBLY

Speaker : Jogendranath Hazarika.

Dy. Speaker : Sheikh Chand Mahammed.

Seats : 126. Party position : Janata Party : 60 : Congress : 24 ; Congress (Indira) : 8 ; Communist Party of India : 6 ; Communist Party of India (Marxist) : 11 ; R. C. P. I. : 4 ; P. T. C. A. (Regional party) : 4 ; and Independent : 9. Woman member : 1.

Phani Medhi (Ind.), (*Abhayapuri North*) ; Rabindra Nath Choudhury (J.P.), (*Abhayapuri South.–S.C.*) ; Nepal Chandra Das (Cong.-I.), (*Algapur*) ; Khagen Barbarua (R.C.P.I.), (*Amguri*) ; Ramendra De (C.P.I.–M) (*Badarpur*) ; Ibrahim Ali (Cong.), (*Baghbar*) ; Dhani Ram Rangpi (Cong.), (*Baithalangso–S.T.*) ; Baikuntha Nath Das (Cong.), (*Barama–S.T.*) ; Kamal Chandra Basumatary (P.T.C.A.), (*Barchalla*) ; Lakheswar Gohain (J.P.,) (*Barhampur*) ; Sheikh Chand Mahammad (J.P.), (*Barkhetri*) ; A. F. Golam Osmani (J.P.), (*Barkhola*) ; A. Latif (J.P.), (*Barpeta*) ; Baneswar Saikia (R.C.P.I.), (*Batadrava*) ; Bishnulal Upadhyaya (Cong.), (*Behali*) ; Dr. Tarini Charan Das (J.P.), (*Bhabanipur*) ; Premodhar Bora (Ind.), (*Bihpuria*) ; Padmalochan Boro (Ind.), (*Bijni*) ; Sarat Chandra Sinha (Cong.), (*Bilasipara–East*) ; Giasuddin Ahmed (C.P.I.), (*Bilasipara–West*) ; Dr. Kosheswar Bora (J.P.), (*Biswanath*) ; Bilton G. Momin (J.P.), (*Bokajan–S.T.*) ; Chatra Gopal Karmakar (Cong.), (*Bokakhat*) ; Umesh Chandra Das (J.P.), (*Boko–S.C.*) ; Mathura Mohan Sinha (J.P.), (*Bongaigaon*) ; Jnan Gogoi (J.P.), (*Chabua*) ; Manik Chandra Das (J.P.), (*Chapaguri–S.T.*) ; A. N. Akram Hussain (Cong.–I.), (*Chaygaon*) ; Dames Ali Ahmed (Cong.), (*Chenga*).

Smt. Syeda Anwara Taimur (Cong.), (*Dalgaon*) ; Ramesh Das (J.P.), (*Dergaon–S.C.*) ; Lakhya Nath Doley (Cong.), (*Dhakua Khana–S.T.*) ; Ramani Barman (J.P.), (*Dharampur*) ; Pratap Kalita (Cong.), (*Dhekiajuli*) ; Purna Chandra Bora (J.P.), (*Dhemaji–S.T.*); Md. Shamoul Huda (R.C.P.I.), (*Dhing*) ; Sisir Ranjan Das† (Cong.–I.), (*Dholai–S.C.*); Mohammad Umaruddin (Cong.), (*Dhubri*) ; Keshab Chandra Gogoi (J.P.), (*Dibrugarh*) ; Rameshwar Dhanowar (Cong.–I.), (*Digboi*) ; Gandhi Ram Timung (J.P.), (*Diphu–S.T.*) ; Dr. Tarini Mohan Barua (J.P.), (*Dispur*) ; Dileswar Tanti (J.P.), (*Doom Dooma*) ; Jagat Chandra Patgiri (J.P.), (*Dudhnai–S.T.*) ; Jogendra Nath Hazarika (J.P.), (*Duliajan*) ; Ajoy Kumar Dutta (J.P.), (*Gauhati East*) ; Kiran Chandra Bezbarua (J.P.), (*Gauhati West*) ; Mohd. Azad Ali (J.P.), (*Gauripur*) ; Birendra Nath Choudhury (C.P.I.–M.), (*Goalpara East*) ; Nazmul Haque (Ind.), (*Goalpara West*) ; Ramchandra Sarmah (J.P.), (*Gohpur*) ; Someswar Bora (J.P.), (*Golaghat*) ; Alauddin Sarkar (C.P.I.), (*Golokganj*) ; Mathias Tudu (Cong.), (*Gossaigaon*) ; Sona Ram Thaosen (J.P.), (*Haflong–S.T.*) ; Dipak Bhattacharjee (C.P.I.–M.), (*Hailakandi*) ; Rabindranath Malakar (J.P.), (*Hajo*) ; S. R. D. Gupta (J.P.), (*Hojai*) ; Barelong Terang (J.P.), (*Howraghat–S.T.*) ; Prasad Chandra Dolai (Cong.), (*Jagirod–S.C.*) ; Afzalur Rahman (J.P.), (*Jaleswar*) ; Lakhyadar Choudhury (J.P.), (*Jalukbari*) ; Mujamil Ali Choudhry (J.P.), (*Jamunamukh*) ; Abdus Sobhan (Cong.–I.), (*Jania*) ; Romesh Mohan Kouli (J.P.), (*Jonai–S.T.*) ; Dulal Chandra Baruah (J.P.), (*Jorhat*).

Nagen Sarma (J.P.), (*Kalaigaon*) ; Atul Chandra Goswami (Ind.), (*Kaliabar*) ; Daibasakti Deka (J.P.), ([illegible]pur) ; Nishith Ranjan Das (C.P.I.–M.) (*Karimganj North*) ; Abdul Muqtadir Choudhury (Cong.), (*Karimganj South*) ; Abdul Kiyum Choudhury (Cong.), (*Katigora*) ; [illegible] Sankar Roy (Cong.), (*Katlicherra*) ; Nagen Barua (J.P.), (*Khumtai*) ; Samar Brahma Choudhury (P.T.C.A.), (*Kokrajhar East–S.T.*) ; Ranendra N. Basumatari (Cong.), (*Kokrajhar West–S.T.*) ; Abdul Kashem (Cong.), (*Lahorighat*) ; Dipak Moormoo (J.P.), (*Lahowal*) ; Sulo Bora (C.P.I.), (*Lakhimpur*) ; K. Kutubuddin Ahmed (J.P.), (*Lakhipur*) ; Biresh Misra (C.P.I.–M.), (*Lumding*) ; Silvius Condpan (J.P.), (*Majbat*) ; Chakbhal Kagyung (J.P.), (*Majuli–S.T.*) ; Anil Das (J.P.), (*Mangaldoi–S.C.*) ; Zahirul Islam (J.P.), (*Mankachar*) ; Kul Bahadur Chetri (J.P.), (*Margherita*) ; Gajen Tanti (Cong.), (*Mariani*) ; Kalira Deka Raja (Cong.), (*Marigaon*) ; Buddha [illegible] (P.C.P.I.), (*Mahmora*) ; Joy Chandra Nagbanshi (Cong.), (*Moran*) ; Sasha Kamal Handique (C.P.I.–M.), (*Naharkatia*) ; Narendra Nath Dutta (C.P.I.–M.), ([illegible]) ; Afazuddin Ahmed (Ind.), (*Naoboicha*) ; Hiteswar Saikia (Cong.), (*Nazira*) ; Mukut Sarma (Cong.), (*Nowgong*).

Harendra Goswami (J.P.), (*Palasbari*) ; Ramesh Chandra Saharia (Ind.), (*Panery*) ; Bubaneswar Barman (J.P.), (*Patachar-Kuchi*) ; Fakrul Islam (J.P.), (*Patharkandi*) ; Baliram Das (J.P.), (*Raha–S.C.*) ; Gokok Rajbanshi (Cong.), (*Rangapara*) ; Purna Boro (C.P.I.–M.), (*Rangiya*) ; Lilamoy Das (S.C.), (*Ratabari–S.C.*) ; Mohammad [illegible] (Cong.), (*Rupahihat*) ; Bipin Hazarika (C.P.I.–M.), (*Sadiya*) ; Dewan Joynal Abedin (Ind.), (*Salmara-South*) ; Bhabendra Kumar Saikia (J.P.), (*Samaguri*) ; Hemen Das (C.P.I.–M.), (*Sarbhog*) ; Sirajul Haque (Ind.), (*Sarukhetri*) ; Aklius Tirkey (Cong.), (*Sarupathar*) ; Promode Gogoi (C.P.I.), (*Sibsagar*) ; Panchanam Brahma (P.T.C.A.), (*Sidli–S.T.*) ; Noorul Huda (C.P.I.–M.) (*Silchar*) ; Madhab Rajbanshi (J.P.), (*Sipajhar*) ; Altaf Hossain Mazumdar (J.P.), (*Sonai*) ; Satya Tati (Cong.–I), (*Sonari*) ; Golak Kakati (J.P.), (*Sootea*) ; Padam Bahadur Chouhan (J.P.), (*Tamulpur*) ; Devendra Bora (J.P.), (*Teok*) ; Jiban Bora (J.P.), (*Tezpur*) ; Jogan Gogoi (C.P.I.), (*Thowra*) ; Bhadreswar Gogoi (J.P.), (*Tinkhong*) ; Golap Borborah (J.P.), (*Tinsukia*) ; Giridhar Thengal (C.P.I.), (*Titabar*) ; Binoy Kumar Basumatary (P.T.C.A.),(*Udalguri*); Jagannath Singh (J.P.),(*Udharbond*).

BIHAR VIDHAN SABHA

Speaker : Tripurari Prasad Sinh.

Dy. Speaker : Radhanandan Jha.

Party-wise position of the Assembly is as follows: Seats : Janata party : 214 : Congress : 13 ; Cong.-(I.) : 43 ; Communist Party of India : 20 ; Communist Party of India (Marxist) : 4 ; Akhil Bharatiya Jharkand : 1 ; Samyukt Virodhi Morcha Vidayak Dal : 8 ; Lok Paksh Vidayak Dal : 7 ; Forward Bloc : 1 ; Independent : 10 ; Vacant : 1 ; Nominated : 1 ; Scheduled Castes : 45 ; Scheduled Tribes : 28 ; Women members : 13.

Rampreeti Rai (Cong.), (*Adapur*) ; Virendra Kumar Singh (J.P.), (*Alamnagar*) ; Pashupati Kumar (J.P.), (*Allouli—S.C.*) ; Janardhan Yadav (J.P.), (*Amarpur*) ; Chandra Shekhar Jha (J.P.), (*Amour*) ; Shridev Jha (Cong.-I.), (*Araria*) ; Smt. Sumitra Devi (J.P.), (*Arrah*) ; Baneshwar Sinh (J.P.), (*Arwal*), Indradev Choudhary (S.V.D.), (*Ashthawa*) ; Mundrika Sinh (J.P.), (*Atri*) ; G. P. Yadav (J.P.), (*Aurai*) ; Ram Naresh Sinh (Cong.), (*Aurangabad*).

Devnarayan Yadav (J.P.), (*Babubarhi*) ; Ramdev Rai (Cong.-I.), (*Bachhwara*) ; Ranna Shivlakhpati Sinh (J.P.), (*Badh*) ; Raghvendra Pratap Singh (J.P.), (*Barhara*) ; Narsingh Bhaitha (Cong.), (*Baguha—S.C.*) ; S[illegible] Dayal Singh (Cong.-I.), (*Bagmara*) ; Goutam Sagar Rana (J.P.), (*Bagodar*) ; Islam Din Bagi (J.P.), (*Bahadurganj*) ; Vishnupad Ghosh (Cong.-I.), (*Baharagora*) ; Abdul Bari Siddique (J.P.), (*Baheda*) ; Tejnarayan Yadav (J.P.), (*Bahedi*) ; Brajkishore N. Singh (J.P.), (*Baikunthpur*) ; Jagnarayan Trivedi (Cong.-I.), (*Baksar*) ; [illegible] Singh (Cong.-I.), (*Baktiarpur*) ; Ramchandra Paswan (J.P.), (*Bakhri—S.C.*) ; Chandra Chud Dev (J.P.), (*Balia*) ; Ramakant Pandey (J.P.), (*Baniapur*) ; Sidheshwar Prasad Singh (J.P.), (*Banka*) ; Balbodh Paswan (J.P.), (*Banmankhi—S.C.*) ; Smt. Bhagwati Devi (J.P.), (*Barachatti—S.C.*) ; Basudev Prasad Singh (J.P.), (*Barari*) ; Abdul Gaffur (Cong.), (*Barauli*) ; Suryanarayan Singh (C.P.I.), (*Barauni*) ; Nain Tara Das (J.P.), (*Barbigha—S.C.*) ; Kailaspathi Singh (J.P.), (*Bargaon*) ; Parameshwar Hembram (J.P.), (*Barhait—S.T.*) ; Smt. Lalita Rajya Lakshmi (J.P.), (*Barhi*) ; Sukhdev Yadav (J.P.), (*Barkhatta*) ; Ram Ratan Singh (J.P.), (*Barsaliganj*) ; Abu Nayim [illegible] (L.P.V.D.), (*Barsoi*) ; B. P. Singh (C.P.I.), ([illegible]) ; Vidya Bhooshan Singh (J.P.), (*Basantpur*) ; [illegible] (Cong.), (*Bathnaha*) ; Hasibur Rahman (Cong.-I.), ([illegible]) ; Bhola Singh (Cong.-I.), (*Begusarai*) ; S[illegible]

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† Election declared void by the Gauhati High Court.

Sinh (J.P.), (*Belaganj*) ; Chaturbhuj Prasad Sinh (J.P.), (*Belhar*) ; Raghuveer Prasad Singh (J.P.), (*Belsand*) ; Tejnarayan Jha (C.P.I.), (*Benipatti*) ; Mithilesh Kumar (J.P.), (*Bermo*) ; G. S. Pandey (Cong.-I.), (*Bettiah*) ; Shivapariksha Sinh (J.P.), (*Bhabhua*) ; Vijaykumar Mitra (J.P.), (*Bhagalpur*) ; R. C. P. Kesari (J.P.), (*Bhavnathpur*) ; Yamuna Ram (J.P.), (*Bhore—S.C.*) ; Deonath Prasad (C.P.I.), (*Bihar*) ; Sitaram Sinh Azad (C.P.I.), (*Bihpur*) ; Kailashpati Mishra (J.P.), (*Bikram*) ; Kamal Paswan (J.P.), (*Bochaha—S.C.*) ; Rajesh Kumar (J.P.), (*Bodhgaya—S.C.*) ; Samresh Sinh (L.P.V.D.), (*Bokaro*) ; Benjamin Murmu (J.P.), (*Boriyo—S.T.*) ; Ramakant Thakur (J.P.), (*Brahmapur*).

Smt. Muktidani Sumbriyee (Jharkhand), (*Chaibasa—S.T.*) ; Lalmuni Choube (J.P.), (*Chainpur*) ; Kalguni Prasad Yadav (L.P.V.D.), (*Chakai*) ; Jagannath Vakira (J.P.), (*Chakradharpur—S.T.*) ; Ramdas Ram (L.P.V.D.), (*Chandankiyari—S.C.*) ; Hari Narayan Sinh (J.P.), (*Chandi*) ; Veer Singh (J.P.), (*Chanpatia*) ; Mithileshkumar Singh (J.P.), (*Chapra*) ; Jorawar Ram (J.P.), (*Chatarpur—S.C.*) ; S. Ahmed Sabri (J.P.), (*Chatra*) ; Jagdambhi Mandal (Ind.), (*Chautham*) ; Ramvachan Paswan (J.P.), (*Chenari—S.C.*) ; Harihar Mahto (Cong.-I.), (*Cheria Baryarpur*) ; Sitaram Paswan (J.P.), (*Chhatapur—S.C.*).

Yashwant Kumar Chowdhry (J.P.), (*Dalsingh Sarai*) ; Puran Chand (J.P.), (*Daltonganj*) ; R. L. S. Yadav (Cong.), (*Danapur*) ; Krishna Pratap Singh (Cong.-I), (*Darauli*) ; Shivnath Varma (J.P.), (*Darbhanga*) ; Jagdish Choudhry (J.P.), (*Darbhanga, Rural—S.C.*) ; Basawan Sinh (J.P.), (*Dehri*) ; Smt. Veena Rani (J.P.), (*Deoghar—S.C.*) ; Ramlagan Ram (J.P.), (*Dev—S.C.*) ; Siyaram Thakur (J.P.), (*Dhaka*) ; Suryanarayan Singh Yadav (J.P.), (*Dhamdaha*) ; Hardev Prasad (Cong.-I.), (*Dhanha*) ; Harihar Narayan Prabhakar (J.P.), (*Dhanavar*) ; Yogeshwar Prasad (Cong.-I.), (*Dhanbad*); Mahavir Prasad (J.P.), (*Dhansyampur*) ; Naresh Das (C.P.I.), (*Dhoraiya—S.C.*) ; Shivpujan Sinh (J.P.), (*Dinara*) ; Mahadev Maradi (J.P.), (*Dumka—S.T.*) ; Ramashray Sinh (C.P.I.), (*Dumraon*) ; Lalchand Mahto (J.P.), (*Dumri*) ; Kameshwar Paswan (J.P.), (*Fatwa—S.C.*) ; Sarayu Mishra (Cong.), (*Forbesganj*) ; Rampreet Paswan (J.P.), (*Fulwari—S.C.*).

Vinod N. Dikshit (J.P.), (*Gadhva*) ; Vinodanand Singh (J.P.), (*Gaighati*) ; Lakshman Swarnakar (J.P.), (*Gandhe*) ; Muneshwar Chaudhri (J.P.), (*Garkha—S.C.*) ; Smt. Sushila Sahay (J.P.), (*Gaya—City*) ; Vijaykumar Sinh (J.P.), (*Gaya Rural*) ; Tika Ram Majhi (C.P.I.), (*Ghatsila—S.T.*) ; R. P. Singh (Cong.-I.), (*Ghorasahan*) ; Jagdish Sharma (J.P.), (*Ghosi*) ; Chaturanan Mishra (C.P.I.), (*Giridih*) ; Ramashankar Pandey (Cong.-I.), (*Gobindganj*) ; Bhatu Mahto (J.P.), (*Gobindpur*) ; Lakhan Mahto (J.P.), (*Godda*) ; Ramoharan Yadav (C.P.I.) (*Goh*) ; Chathru Ram Mahto (J.P.), (*Gomia*) ; Smt. Radhika Devi (J.P.), (*Gopalganj*) ; Maniram Singh (C.P.I.), (*Gopalpur*) ; Krishna Kanth Sinh (Cong.), (*Gorea Kothi*) ; Jayaram Uramv (Ind.), (*Gumla—S.T.*) ; Upendranath Verma (J.P.), (*Gurua*) ; Jagannath Prasad Yadav (J.P.), (*Hajipur*) ; Vaidyanath Yadav (C.P.I.), (*Harlakhee*) ; Bhola Prasad Sinh (S.V.D.), (*Harnowth*) ; Y. K. P. Singh (J.P.), (*Harsidhi*) ; Gajendra Prasad Himanshu (J.P.), (*Hassanpur*) ; Subodh Kant Sahay (J.P.), (*Hatiya*) ; Anirudh Prasad (J.P.), (*Hayaghat*) ; Smt. Rani Dey (J.P.), (*Hazaribagh*) ; Jagdish Prasad (J.P.), (*Hilsa*) ; Babulal Sinh (J.P.), (*Hisua*) ; Harihar Singh (Cong.-I.), (*Hussainabad*).

Dhanshyam Mahato (F.B.), (*Ichagarh*) ; Ishwardas (J.P.), (*Imamganj—S.C.*) ; Krishna Vallabh Prasad Sinh (C.P.I.), (*Islampur*) ; Barju Hasda (J.P.), (*Jagannathpur—S.T.*) ; Satya Narayan Sinh (Ind.), (*Jagdishpur*) ; Ramchandra Sinh Yadav (J.P.), (*Jahanabad*) ; Vameshwar Singh (J.P.), (*Jalalpur*) ; Kapildev Thakur (J.P.), (*Jalley*) ; Madan Besara (Cong.-I.), (*Jama—S.T.*) ; Suresh Kumar Sinh (J.P.), (*Jamalpur*); Dinanath Pandey (J.P.), (*Jamshedpur—East*) ; Mohamed Ayub Khan (J.P.), (*Jamshedpur—West*) ; Durga Prasad Sinh (Cong.), (*Jamtada*) ; Shukar Ravidas (J.P.), (*Jamua—S.C.*) ; Thripurari Prasad Sinh (Speaker), (*Jamui*) ; Munshilal Rai (J.P.), (*Jandaha*) ; Deepnath Rai (L.P.V.D.), (*Jarmundi*) ; Sivanandan Jha (J.P.), (*Jhajha*) ; Dr. Jagannath Mishra (Cong.), (*Jhamjharpur*) ; Surya Dev Sinh (J.P.), (*Jharia*) ; Rajaram Choudhri (Cong.), (*Jiradeyi*) ; Taslimuddin (J.P.), (*Jokihat*) ; Kartik Kumar (J.P.), (*Jugsalai—S.T.*).

Khaja Sahid Hussain (Ind.), (*Kadwa*) ; Sadanand Singh (Cong.-I.), (*Kahalgaon*) ; Vashisht Narayan Singh (J.P.), (*Kalyanpur*) ; Hira Ram Tufani (J.P.), (*Kanke—S.C.*) ; T. P. Singh (J.P.), (*Kanti*) ; Thribhuvan Sinh (J.P.), (*Karakat*) ; Jayanarayan Mehta (Cong.-I.), (*Kasva*) ; Nagina Rai (Cong.-I.), (*Kateya*) ; Jagbandhu Adhikari (J.P.), (*Kathihar*); Guneshwar Prasad Sinh (J.P.), (*Katoria*); Veersingh Murdha (Jharkhand), (*Keleveera—S.T.*) ; Pitambar Singh (C.P.I.), (*Kesariya*) ; Shamsher Jungbahadur Singh (J.P.), (*Khadgpur*) ; Ram Sharan Yadav (Ind.), (*Khagdia*) ; Ramkarun Paswan (J.P.), (*Khajauli—S.C.*) ; Devilal Matisoy (J.P.), (*Kharsawan—S.T.*) ; Sukhadhi Uram (J.P.), (*Khijri—S.T.*) ; Khudiya Pahan (J.P.), (*Khumti—S.T.*) ; Rafiq Alam (Cong.-I.), (*Kisanganj*) ; Vaidyanath Mehta (J.P.), (*Kisanpur*) ; Rajnandan Prasad (J.P.), (*Kisunganj*) ; Durgadas Rathor (J.P.), (*Kivety*); Vishwanath Modi (J.P.), (*Kodarma*); Sitaram Das (J.P.), (*Kodha—S.C.*) ; Naresh Prasad Sinh (J.P.), (*Konch*); Navalkishore Rishidev (J.P.), (*Kumarkhand—S.C.*) ; S. S. Shahi (J.P.), (*Kurhani*) ; Nagamani (S.S.D.), (*Kurtha*); Kapildev Sinh (J.P.), (*Lakhisarai*) ; Arunkumar Sinha (J.P.), (*Lalganj*) ; Ramdev Ram (J.P.), (*Latehar—S.C.*) ; Kuldev Govid (Cong.), (*Laukaha*) ; Vishwamohan Sharma (Cong.), (*Lauriya*) ; Saimon Marandi (Ind.), (*Litipada—S.T.*) ; Indranath Bhagath (Cong.), (*Lohardogga—S.T.*).

Radhanandan Jha (Cong.), (*Madhepur*) ; Radhakant Yadav (J.P.), (*Madhipura*) ; Surya Singh (J.P.), (*Madhoura*) ; Digambar Thakur (J.P.), (*Madhubani*) ; Ajit Kumar Banerjee (J.P.), (*Madhupur*) ; Rooplal Rai (Cong.), (*Madhuvan*) ; Sayed (J.P.), (*Mahagama*) ; Munishwar Prasad Singh (J.P.), (*Mahanar*) ; Umashankar Singh (J.P.), (*Maharajganj*) ; Vishwanath Murmu (J.P.), (*Maheshpur — S.T.*) ; Parameshwar Kumar (J.P.), (*Mahishi*) ; Phudeli Prasad (J.P.), (*Mahuva — S.C.*) ; Phulchand Ram (J.P.), (*Mairwa—S.C.*) ; Govardhan Nayak (J.P.), (*Majhgaon—S.T.*) ; Surendra Ray (J.P.), (*Majorganj—S.C.*) ; Ramjathan Sinh (J.P.), (*Makhdumpur*) ; Karamchand Bhagat (Cong.), (*Mandar—S.T.*) ; Gopal Saran Sinh (J.P.), (*Mandu*) ; Suryadev Sinh (J.P.), (*Maner*) ; Nagendra Jha (Cong.), (*Manigachi*) ; Ram Sipahi Yadav (J.P.), (*Manihari*) ; Yamuna Sinh (J.P.), (*Manika—S.T.*) ; Ram Bahadur Singh (J.P.), (*Manjhi*) ; Ratnakar Nayak (J.P.), (*Manoharpur—S.T.*); R. D. P. Yadav (J.P.), (*Masaudhi*) ; Krishnadev N. Singh (J.P.), (*Mashrakh*) ; Vacant (*Matihani*) ; N. P. Singh (J.P.), (*Meenapur*) ; Bhavesh Chandra Prasad (J.P.), (*Meerganj*) ; Ramkrishna Ram (J.P.), (*Mohaniya—S.C.*) ; Smt. Premalata Rai (J.P.), (*Mohiuddin Nagar*) ; Smt. Krishna Shahi (Cong.), (*Mokamah*) ; Sayyad Jabir Hussain (J.P.), (*Monghyr*) ; Smt. Prabhawati Gupta (Cong.), (*Motihari*) ; Manjaya Lal (J.P.), (*Muzaffarpur*).

Vishweshwar Jha (C.P.I.), (*Nala*) ; Shyam Sundar Prasad (Cong.), (*Nalanda*) ; Janardan Yadav (J.P.), (*Narpatganj*) ; Smt. Sudha Srivastav (J.P.), (*Nathnagar*) ; Kedar Pandey (Cong.), (*Nautan*) ; Ganesh Shankar Vidyarthi (C.P.I.), (*Navada*) ; Yugal Sinh (J.P.), (*Navinagar*) ; Krupa Shankar Chatterjee (Ind.), (*Nirsa*) ; Gopalnarayan Sinh (J.P.), (*Nokha*); Ramvilas Singh (J.P.), (*Obra*).

Siyaram Yadav (J.P.), (*Padaul*) ; Hazim M. Ainul Huq (Cong.-I.), (*Pakud*) ; Kanai Sinh (Ind.), (*Paliganj*) ; Mohan (Sinh (J.P.), (*Panki*); Ramanand P. Yadav (J.P.), (*Parsa*) ; Shyam Kumar P. Singh (J.P.), (*Paru*) ; Naem Akhtar (J.P.), (*Parvatta*) ; Palthan Ram (J.P.), (*Pathepur—S.C.*) ; Md. Shahabuddin (J.P.), (*Patna Central*) ; Ramdev Mahto (J.P.), (*Patna East*) ; Thakur Prasad (J.P.), (*Patna West*) ; Ambika Prasad (C.P.I.), (*Peerpaiti*) ; Ram Mohan (J.P.), (*Phatehpur—S.C.*) ; Karpoori Thakur (J.P.), (*Phulparas*) ; Thulasiram (C.P.I.), (*Pipra—S.C.*) ; Raghupati Gope (J.P.), (*Piro*) ; Kamalakant Prasad Sinha (J.P.), (*Podyahat*) ; Sanatan Sardar (J.P.), (*Pothka—S.T.*) ; Mahendra Narayan Yadav (J.P.), (*Pranpur*) ; Habib Ahmed (J.P.), (*Pupri*) ; Devnath Rai (J.P.), (*Purnea*).

Babulal Shasthri (J.P.), (*Radhopur*) ; Md. Hussain Ansari (J.P.), (*Rafiganj*) ; Asesar Goit (J.P.), (*Raghopur*) ; Vikram Kumar (J.P.), (*Raghunathpur*) ; Babulal (Ind.), (*Rajauli—S.C.*) ; Satyadev Narayan Arya (J.P.), (*Rajgir—S.C.*) ; Dhruv Bhagat (Ind.), (*Rajmahal*) ; N. K. Prasad (J.P.), (*Rajpur—S.C.*) ; Sachidanand Sinh (J.P.), (*Ramgarh*) ; Vishwanath Choudhry (J.P.), (*Ramgarh*) ; Arjun Vikram Sinh (Cong.), (*Ramnagar*) ; N. G. Mitra (J.P.), (*Ranchi*) ; Adik Lal Paswan (J.P.), (*Raniganj—S.C.*) ; Sageer Ahmed (Cong.-I.), (*Rekzaul*) ; Prayag Mandal (Ind.), (*Rosera*) ; N. K. Shahi (J.P.), (*Runnisaidpur*) ; Shaligram Singh Thomar (J.P.), (*Rupauli*).

Duneshwar Prasad (J.P.), (*Sahar—S.C.*) ; S. P. Tekriwal (J.P.), (*Saharsa*) ; Bhagya Narayan Rai (C.P.I.-M.), (*Sahebganj*) ; Shivanandan Paswan (J.P.), (*Sakra—S.C.*) ; Chandrasekhar Singh (J.P.), (*Samastipur*) ; Sonadhari Singh (Cong.), (*Sandesh*) ; Yasodanand Singh (J.P.), (*Sarairanjan*) ; Kade Mamjhi (J.P.), (*Saraikela—S.T.*) ; Chandra Mouleshwar Singh (J.P.), (*Sarath*) ; Vipinbihari Sinha (J.P.), (*Sasaram*) ; Jainarayan Mishra [illegible] (*Shahpur*) ; Rajo Sinh (Cong.), (*Sheikhpura*) ; [illegible] Jha (Cong.), (*Sheohar*) ; Babulal Kisku (J.P.), (*Shikari* [illegible] *—S.T.*) ; Sitaram Prasad (Cong.), (*Sh*[illegible] Fyazul Aazam (Cong.-I.), (*Sikta*) ; M. Azimuddin (In[illegible] (*Sikti*) ; Nagina Chowdhry (J.P.), (*Sikandra—S.*[illegible] Rajendra Sinh (C.P.I.-M.), (*Silli*) ; Upendra Nath [illegible] (J.P.), (*Simria—S.C.*) ; Nirmalkumar [illegible] (*Simdega—S.T.*) ; D. P. Yadav (J.P.), (*Si*[illegible] M. Salauddin (Cong.), (*Simri Bhaktiarpur*) ; [illegible] Pashwan (C.P.I.), (*Sindhia—S.C.*) ; Anant Mahato ([illegible] (*Sindri*) ; Ramyathan Paswan (C.P.I.), (*Singhiya—S.C.*) ; Lalit Uramv (J.P.), (*Sisayee—S.T.*) ; R. S. P. Ya[illegible] (Cong.), (*Sitamarhi*) ; Golam Sarvar (J.P.), (*Si*[illegible] Ashok Kumar Singh (J.P.), (*Sonbarsa*) ; Mahmud A[illegible] (Cong.), (*Sonbarsa—S.C.*) ; Ram Sundar Das ([illegible] (*Sonpur*) ; Ramashray Singh (C.P.I.-M.), (*Suga*[illegible] Jageshwar Mandal (J.P.), (*Sultanganj*) ; Amare[illegible] Prasad Singh (J.P.), (*Supaul*) ; R. C. R. Yadav (C[illegible] (*Sursand*) ; Ramjiprasad Mahto (Ind.), (*Suryagadha*

Anirudh Pathar (J.P.), (*Tamadh—S.T.*) ; Dharma[illegible] Singh (J.P.), (*Taraiya*) ; Smt. Kailash Devi (J.P.), (*T*[illegible]*pur*) ; Muhammad Sulaiman (J.P.), (*Thakurganj*) ; [illegible]panem Horo (Jharkhand), (*Torpa—S.T.*) ; A[illegible] Yadav (J.P.), (*Triveniganj*) ; Satyanarayan Dudani (J.P.), (*Tundi*).

Nagendra Prasad Singh (J.P.), (*Vaishali*) ; P[illegible] Paswan (J.P.), (*Varisnagar—S.C.*) ; Bhandh,u Mah[illegible] (Cong.-I.), (*Vibhutipur*) ; Aklakh Ahmed (J.P.) (*Vikramganj*) ; Rajkumar Purve (C.P.I.), (*Visfi*) ; Binod [illegible] (Ind.), (*Vishrampur*) ; Kartik Uramv (Cong.-I.), ([illegible]*pur—S.T.*) ; Pitambar Paswan (J.P.), (*Warisnag*[illegible]

H. A. Brown (*Nominated*).

BIHAR LEGISLATIVE COUNCIL

Chairman : Vacant.

Dy. Chairman : Sushri Rajeshwar Saroj Das.

Seats : 96. Party position : Congress (I) : 34 : Congress : 6 ; Janata Party : 31 ; C.P.I. : 5 ; Independents : 4 ; Vacant : 11 ; Women members : 5.

Graduates (8). Dr. Maheshwari Sinh Manesh (J.P.), (*Bhagalpur*) ; Kamal Nath Singh Takur (Cong.-I.), (*Darbhanga*) ; Ranjeet Bahadur Singh (Cong.), (*Gaya*) ; Diwakar Pd. Sinh (J.P.), (*Monghyr*) ; Baidyanath Pandey (J.P.), (*Muzaffarpur*) ; Ram Ishwar Singh (J.P.), (*Patna*) ; Ramesh Pd. Sinh (C.P.I.), (*Patna*) ; Basant Kumar Lal (J.P.), (*Ranchi*).

Teachers (8) : Sharda Pd. Sinh (J.P.), (*Bhagalpur*) ; Arun Kumar (J.P.), (*Gaya*) ; Dr. Umeshwar Pd. Verma (Cong.-I.), (*Monghyr*) ; Padmadeo Narayan Sharma (J.P.), (*Patna*) ; Parmeshwar (Ind.), (*Ranchi*) ; Sheo Chandra Jha (Cong.-I), (*Santal Pargana*) ; Brinda Prasad Roy (Ind.), (*Tirhut*) ; Jaimangal Sinh (Ind.), (*Tirhut*).

Local Authorities (34) : Jai Kumar Jain (Cong.-I), (*Bhagalpur*) ; Tapeshwar Sinh (Cong.), (*Bhojpur*) ; Vacant (*Bhojpur*) ; Vacant (*Champaran*) ; Lalan Shukla (Cong.-I.), (*Champaran*) ; Rajkumar Mahaseth (J.P.), (*Darbhanga*) ; Harischandra Jha (Cong.-I.), (*Darbhanga*) ; Vacant (*Darbhanga*) ; Vacant (*Dhanbad*) ; Rameshwar Prasad (J.P.), (*Hazaribagh*) ; Vacant (*Hazaribagh*) ; Ram Righan Sinh (Cong.-I), (*Monghyr*) ; Vacant (*Monghyr*) ; Raghurnath Prasad (Cong.-I)., (*Muzaffarpur*) ; Naziruddin Haidekhan (Cong.-I.), (*Muzaffarpur*) ; Jag Narayan Pathak (Cong.-I.), (*Palamu*) ; Kumar Jha (Cong.), (*Patna*) ; Umesh Prasad Sinh (Cong.), (*Patna*) ; Brajlal Prasad (Cong.), (*Patna*) ; Vacant (*Patna*) ; Dinesh Kumar Sinh (Cong.), (*Purnea*) ; Vacant (*Purnea*) ; Budhram Bhagat (Cong.-I.), (*Ranchi*) ; Amendra Nath Sahdev), (J.P.), (*Ranchi*) ; Biswanath Gurumaita (Cong.-I.), (*Saha*[illegible] Sanath Raut (Ind.), (*Santhal Pargana*) ; Vacant (*S*[illegible] *Pargana*) ; Ram Nath Sinh (Cong.), (*Saran*) ; Kashi[illegible] Gupta (J.P.), (*Saran*) ; Vacant (*Saran*) ; Dhananjay [illegible] (Cong.-I.), (*Singhbhum*) ; Ban Bihari Mahto (Ind.), (*Singhbhum*).

Legislative Assembly (34) : Chandra Mohan [illegible] (C.P.I.), Fida Hussain Ansari (Cong.-I.); Ashutosh Ba[illegible] Singh (J.P.), Thakur Muneshwar Nath Singh (J.P.) ; [illegible] Nandan Singh (Cong.) ; Babulal Madhukar (J.P.) ; [illegible]shwar Jha (Cong.-I.) ; Devendra Prasad Yadav [illegible] Suraj Prasad (C.P.I.) ; Purushotam Prasad Si[illegible] (Cong.-I.) ; Jogendra Prasad Chourasiya [illegible] Bageshwari Prasad Singh (Cong.) ; S. Ali Ha[illegible] (J.P.) ; Bindeshwari Prasad Singh (Cong.-I.); [illegible] Prasad (Cong.) ; Sushri Rajeshwari Saroj Das (C[illegible] Prem Narayan Gadhwal (Cong.-I.) ; Bijoy K[illegible] Mishra (J.P.) ; Awardheshwar Ram (J.P.) ; [illegible] Narayan Choudhary (Cong.-I.); Ram Govind Singh (C[illegible] Indra Kumar (J.P.) ; Janardan Prasad Verma (C[illegible] Smt. Kamala Singh (J.P.) ; Krishnachandra Choud[illegible] (C.P.I.); Duti Pahan (J.P.); Sadhusharan Singh (C[illegible] Sivendra Prasad Sinh (J.P.) ; Shafikullah Ansari (C[illegible] [illegible] Singh (J.P.) ; K[illegible] [illegible] Mithileshwar Pd. Singh (Cong.-I.) ; Waani Ahmad (C.P.I[illegible] Smt. Kamnika Gupta (Cong.-I.).

Nominated (12) : Shamucharan Tubid (Cong.-I.); [illegible] Nath Jha (J.P.) ; Z. A. Jaferi (J.P.) ; Md. Wali Rahm[illegible] (Cong.) ; Upendra Maharathi (Cong.-I.) ; Jagdish S[illegible] (J.P.) ; Dr. Jai Narayan Mandal (J.P.) ; Poddar R[illegible]vatar 'Arun' (J.P.) ; Sardar Mauleshwar Singh (C[illegible] Siya Ram Tewari (J.P.) ; Sushri Shyama Kumari (C[illegible] Smt. Hamida Naim (Cong.-I.).

DELHI METROPOLITAN COUNCIL

Chairman : Kelka Das ; *Dy. Chairman :* Begum Khursid Kidwai.

Total Seats : 56.

Party position : Janata Party : 45, Congress : 11. Women Members : 4.

K. D. Gupta (J.P.), (*Ajmere Gate*); D. D. Shastri (Cong.), (*Anand Parbat*) ; Vishnu Dutt (J.P.), (*Ashok Nagar*) ; V. D. Sharma (J.P.), (*Ballimaran*) ; Shiv Charan Gupta (J.P.), (*Barakhamba*) ; Rohtas Dabas (J.P.), (*Bhawana*) ; R. K. Jain (J.P.), (*Chandni Chowk*) ; K. L. Sharma (J.P.). (*Civil Lines*) ; Vimal Negi (Cong.), (*Delhi Cantt.*) ; Shyam Charan Gupta (J.P.), (*Deputy Ganj*) ; Som Nath (J.P.), (*Gandhi Nagar*) ; I. D. Mahajan (J.P.), (*Geeta Colony*) ; Swarup Chand Rajan (J.P.), (*Gole Market*) ; Kalyan Singh (Cong.-I.), (*Gonda*) ; K. K. Gupta (J.P.), (*Haus Khas*) ; Indu Mohan Sehgal (J.P.), (*Jangpura*) ; C. L. Goel (J.P.), (*Kamala Nagar*) ; B. M. Toofan (J.P.), (*Karampura*) ; J. S. Phull (J.P.), (*Kasturba Nagar*) ; Y. D. Ahuja (J.P.), (*Kishan Nagar*) ; Rajesh Sharma (J.P.), (*Kutcha Pati Raw*) ; R. L. Verma (J.P.), (*Lajpat Nagar*) ; K. N. Sachdeva (J.P.), (*Lakshmibai Nagar*); Bhore Lal (Cong.), (*Madipur*); H. R. Sethi (J.P.), (*Malaviya Nagar*) ; Begum Kurshid Kidwai (J.P.), (*Matia Mahal*) ; Kalika Das (J.P.), (*Mehrauli*) ; Vivesh Pratap Chaudhary (J.P.), (*Minto Roud*) ; Mahavir Vaid (J.P.), (*Model Town*) ; Mrs. Pushpa Kale (J.P.), (*Motia Khan*) ; Bhore Lal (Cong.), (*Modipur*) ; M. L. Khurana (J.P.), (*Motinagar*) ; Bharat Singh (Cong.), (*Najafgarh*) ; Balkrishan Sharma (J.P.), (*Narela*) ; L. M. Gautam (J.P.), (*Okhla*).

A. N. Kumar (J.P.), (*Paharganj*) ; Laxman Singh (J.P.), (*Palam*) ; K. N. Sahni (J.P.), (*Patel Nagar*) ; Mohammad Ismail (J.P.), (*Qasabpura*) ; R. N. Vij (J.P.), (*Rajinder Nagar*) ; Harbhagwan Arora (J.P.), (*Rajouri Garden*) ; Ram Bhaj (J.P.), (*Ramakrishna Puram*) ; B. R. Solanki (Cong.), (*Ramnagar*) ; Janardan Gupta (J.P), (*Rampura*) ; Ved Prakash (Cong.), (*Rohtas Nagar*) ; D. D. Vasisht (J.P.), (*Sarai Rohilla*) ; P. N. Singh (J.P.), (*Sarojini Nagar*); Mrs. S. V. N. Prabhakar (Cong.), (*Shadipur*) ; D. K. Jain (J.P.), (*Shahadra*) ; S. P. Chugh (J.P.), (*Shakti Nagar*) ; Ram Gopal Sirodia (J.P.), (*Shakur Basti*), I. M. Bhardwaj (J.P.), (*Sohanganj*) ; Q. P. Babbar (J.P.), (*Tilak Nagar*) ; Prem Singh (Cong.), (*Tughlaqabad*) ; Prashant Kumar (J.P.), (*Vijay Nagar*) ; Mool Chand (Cong.), (*Wazirabad*).

GOA LEGISLATIVE ASSEMBLY

Speaker : Narayan S. Fugro.

Dy. Speaker : Makanbhai Morarji Bhathela.

Seats : 30. Party-wise position : Maharashtrawadi Gomantak : 15 ; Congress : 10 ; Janata Party : 3 ; Independent : 2 ; Woman member : 1.

Electorate : 485,811 ; Votes polled : 307,119 ; Valid votes : 302,237.

Lourenco P. S. Cota (Cong.), (*Benaulim*) ; Smt. Shashikala G. Kakodkar (M.G.), (*Bicholim*) ; Raul Hilario Fernandez (M.G.), (*Calangute*) ; Vassu P. Gaonkar (M.G.), (*Canacona*); Froilano Machado (Cong.), (*Cortalim*); Vinayak D. Chodankar (M.G.), (*Cumbarjua*) ; Ferdino A. Rebello (J.P.), (*Cuncolim*) ; Francisco C. Sardinha (Cong.), (*Curtolim*) ; Shankar V. Laad (M.G.), (*Dabolim*) ; Makanbhai Morarji Bhathela (Ind.), (*Daman*) ; Narayan S. Fugro (Ind.), (*Diu*) ; Ramakant D. Khalap (M.G.), (*Mandrem*) ; Surendra V. Sirsat (M.G.), (*Mapusa*) ; Krishna R. Bandodkar (M.G.), (*Marcaim*) ; Anant N. Naik (Cong.), (*Margao*) ; Hassan H. Shaikh (Cong.), (*Marmugao*).

Leo Mauricio Velho (Cong.), (*Navelim*); Laxmikant Shantaram S. Surlikar (Cong.), (*Pale*); Madhav Ramakrishna Bir (J.P.), (*Panaji*); Deu Gunaji Mandrekar (M.G.), (*Pernem*) ; Rohidas H. Naik (M.G.), (*Ponda*) ; Vaikunt G. Desai (Cong.), (*Quepem*) ; Dilkhush F. Desai (M.G.), (*Rivona*) ; Sadashiv V. Marathe (M.G.), (*Sanguem*) ; Shripad L. Cuncoliencar (Cong.), (*Santo Andre*) ; Dr. Jack De Sequeira (J.P.), (*Santa Cruz*) ; Pratapsing R. Rane (Cong.), (*Satari*) ; C. U. Chodankar (M.G.), (*Siolim*) ; Jayakrishna P. Naik (M.G.), (*Siroda*) ; Dayanand G. Narvekar (M.G.), (*Tivim*).

GUJARAT LEGISLATIVE ASSEMBLY

Speaker : Kundanlal Dholakia.

Dy. Speaker : Manubhai H. Palkhiwala.

Total Seats : 182 ; Electorate : 13,974,992 ; Votes Polled : 8,406,342 ; Invalid Votes ; 334,832.

Reserved Seats : 37 (Scheduled Caste : 12 ; Scheduled Tribe : 25).

Party Position : Janata Party 109 ; Congress (I) ; 55 ; Cong. : 12 ; Independents : 6 .

Maheshkumar H. Thacker (J.P.), (*Abdasa*) ; Narsinhdas Gordhandas Gondhiya (J.P.), (*Amreli*) ; Ranchodbhai S. Solanki (Cong.-I.), (*Anand*) : Champaklal Chunilal (J.P.), (*Anjar*) ; Thakorbhai G. Patel (J.P.), (*Ankleshwar*) ; Laxmanbhai Kalidas Patni (Cong.-I.), (*Asarwa*) ; Jina Devraj Kansagara (J.P.), (*Babra*) ; Chhatrasinh A. Solanki (Cong.-I.), (*Balasinor*) ; C. N. Rathod (J.P.), (*Bardoli—S.T.*) ; Dhulabhai Dalabhai Gohel (J.P.), (*Bavla—S.C.*); Lalsinhji K. Rahevar (J.P.), (*Bayad*) ; Madhavsinh F. Solanki (Cong.-I.), (*Bhadran*) ; Samant K. Bhatia (J.P.), (*Bhanvad*) ; Piyushbhai D. Thakore (J.P.), (*Bharuch*) ; Nagindas Manilal Shah (J.P.), (*Bhavnagar-North*) ; Manilal G. Gandhi (J.P.), (*Bhavnagar-South*) ; D. K. Vyas (J.P.), (*Bhiloda*) ; K. J. Dholakia (J.P.), (*Bhuj*) ; Umedbhai F. Gohel (Cong.-I.), (*Borsad*) ; Dr. Valabhbhai J. Patel (J.P.), (*Botad*); Dr. Keshavbhai Ratanji Patel (J.P.), (*Bulsar*) ; Vallabhbhai Ashabhai Patel (J.P.), (*Cambay*) ; Shankerbhai D. Vaghela (J.P.), (*Chaklasi*) ; Vikrambhai D. Patel (J.P.), (*Chanasma*) ; Ramanbhai N. Rathwa (J.P.), (*Chhota Udepur—S.T.*) ; Bhagubhai P. Patel (J.P.), (*Chikhli—S.T.*) ; T. N. Patel (J.P.), (*Chorasi*) ; K. K. Makwana (Cong-I.), (*Chotila*) ; A. N. Patel (J.P.), (*Dabhoi*) ; B. L. Bagulbhai (J.P.), (*Dangs-Bansda—S.T.*) ; Vishnubhai Kashibhai Patel (J.P.), (*Daksroi*) ; Harisinh P. Chavda (J.P.), (*Danta*) ; Manubhai Palkiwala (Cong.), (*Dariapur Kazipur*) ; Bhimabhai D. Rathod (J.P.), (*Dasada — S.C.*) ; K. K. Vasava (Cong.-I.), (*Dediapada — S.T.*) ; V. J. Patel (J.P.), (*Deesa*) ; G. M. Thakor (J.P.), (*Dehgam*) ; Liladhar K. Vaghela (Cong-I.), (*Deodar*) ; Jayadeepsinhji (Cong-I.), (*Devgadh-Baria*) ; Navalbhai N. Shah (J.P.), (*Dhandhuka*) ; Mansukhlal Jayshankar Dave (Cong.), (*Dhanera*) ; Ramubhai Balubhai Jadhav (J.P.), (*Dharampur—S.T.*) ; Manubhai N. Kotadia (J.P.), (*Dhari*); Parsottambhai R. Makwana (Cong.-I.),(*Dholka*); Chimanlal A. Mehta (Cong.-I.), (*Dhoraji*) ; Nagindas M. Shah (Ind.), (*Dhrangadhra*) ; Lalitkumar Bhagwandas Patel (Cong.-I.), (*Dohad—S.T.*) ; Markhi J. Goria (J.P.), (*Dwarka*) ; B. K.

Vasanwala (J.P.), (*Ellis Bridge*) ; Pratapbhai Tarachand Shah (Cong.), (*Gadhada*) ; P. D. Naik (J.P.), (*Ganderi*) ; Jethalal F. Patel (J.P.), (*Gandhinagar*) ; Jorubhai N. Gohil (Ind.), (*Ghogha*) ; Abdul Rahim Ismail Khalpa (Cong.-I.), (*Godhra*) ; P. L. Sorathiya (Cong.), (*Gondal*) ; [illegible] M. Patel (J.P.), (*Halol*) ; A. K. Shah (J.P.), (*Halvad*) ; Bhagwandas H. Patel (Cong.-I.), (*Himmatnagar*).

Prof. Karsandas H. Soneri (J.P.), (*Idar—S.C.*) ; Ginabhai Ramsinh Vasava (Cong.), (*Jagadia*) ; G. C. Patel (J.P.), (*Jalalpore*) ; Abdulrahim T. Kundiwala (Cong.-I.), (*Jamalpur*) ; Maganbhai B. Solanki (Cong.-I.), (*Jambusar*) ; Vithalbhai P. Kalaria (J.P.), (*Jamjodhpur*) ; D. P. Jadeja (Cong.-I.), (*Jamnagar*) ; Bhanji Kama Parmar (Cong.-I.), (*Jamnagar-Rural—S.C.*) ; Shivrajkumar Khachar (J.P.), (*Jasdan*) ; Ramniklal D. Patel (J.P.), (*Jetpur*) ; Mohansinh C. Rathwa (J.P.), (*Jetpur*) ; Revadas L. Vasava (Cong.-I.), (*Jhagadia—S.T.*) ; Virjibhai Lambabhai Munia (Cong.-I.), (*Jhalod—S.T.*) ; Bhanji Bhimji (J.P.), (*Jodiya*) ; Khushalbhai H. Parmar (Cong.-I.), (*Jotana—S.C.*), Smt. Hemaben Suryakant Acharya (J.P.), (*Junagadh*) ; Prahladbhai K. Patel (J.P.), (*Kadi*) ; Bhimjibhai V. Patel (J.P.), (*Kalawad*) ; Chimanbhai Purshottamdas Patel (J.P.), (*Kalol*) ; Maneklal M. Gandhi (J.P.), (*Kalol*) ; Rajkumar G. Gupta (J.P.), (*Kalupur*); D. M. Rathod (J.P.), (*Kamrej—S.T.*); Mafatlal Z. Panchani (J.P.), (*Kankrej*) ; Budhaji J. Chauhan (Cong.-I.), (*Kapadwanj*) ; R. T. Leuva (Cong.), (*Karjan—S.C.*) ; Maganbhai Gokalbhai Jhala (Cong-I.), (*Kathlal*) ; Devjibhai B. Vanvi (Cong.-I.), (*Keshod—S.C.*) ; Ashok Bhatt (J.P.), (*Khadia*) ; Hemantbhai R. Madan Ind.), (*Khambhalia*) ; Jagdishchandraji D. Damor (Cong.-I.), (*Khedbrahma—S.T.*) ; Shankerji Okhaji Thakore (Cong.-I.), (*Kheralu*); Pratapsinh A. Mori (J.P.), (*Kodinar*); Lallubhai Sheth (J.P.), (*Kundla*) ; Vejabhai S. Kambalia (Cong.-I.), (*Kutiyana*); Maneklal Jerambhai Bhadani (J.P.), (*Lathi*) ; Nandlal S. Shah (Cong.-I.), (*Limbdi*) ; Malsinh Fatabhai Damor (Cong.-I.), (*Limdi—S.T.*) ; Virsinh G. Mohaniya (J.P.), (*Limkheda—S.T.*) ; Shantilal G. Shah (J.P.), (*Lunawada*) ; Ramanbhai N. Patel (Ind.), (*Mahmedabad*) ; Balwantsinh S. Sodha (Cong.-I.), (*Mahudha*) ; Chabildas Mehta (Cong.), (*Mahuva*) ; Dhanjibhai K. Dhodia (Cong.-I.), (*Mahuva—S.T.*) ; Ratna M. Thumar (J.P.), (*Maliya*) ; Vallabhbhai Popatlal Patel (J.P.), (*Manavadar*) ; Kantilal Ishwardas Patel (J.P.), (*Mandal*) ; S. R. Mehta (J.P.), (*Mandvi*) ; Jethalal R. Jora (Cong.-I.), (*Mangrol*); M. J. Vasava (Cong.-I.) , (*Mangrol—S.T.*); N. M. Barot (J.P.), (*Maninagar*) ; Dineshchandra V. Shah (J.P.), (*Mansa*) ; Gordhanbhai S. Patel (J.P.), (*Matar*) ; Jethalal C. Gandhi (J.P.), (*Meghraj*) ; Bhavsinhji Dansinhji Jhala (Cong.-I.), (*Mehsana*) ; Arjanbhai B. Patel (J.P.), (*Modasa*) ; Gokalbhai D. Parmar (Cong.), (*Morvi*) ; Uttambhai H. Patel (Cong.-I.), (*Mota Pondha—S.T.*) ; M. S. Motharia (J.P.), (*Mundra—S.C.*).

Dinsha Z. Patel (J.P.), (*Nadiad*) ; Thavardas L. K[illegible]chandani (J.P.), (*Naroda*) ; Meghabhai J. Bhil (Cong.-I.), (*Nasvadi—S.T.*); V. N. Patel (J.P.), (*Navsari*); G[illegible]bhai B. Vasava (Cong.-I.), (*Nijhar—S.T.*); Prabh[illegible] Patel (J.P.), (*Olpad*) ; Jashvantlal S. Shah (J.P.), (*P[illegible]*) ; Lekhraj H. Bachani (J.P.), (*Palanpur*) ; K[illegible] Sarvaiya (Ind.), (*Palitana*) ; C. J. Patel (J.P.), (*Par[illegible]—S.T.*) ; Bhagwandas N. Amin (J.P.), (*Patan*) ; F[illegible] Vardhabhai Patel (J.P.), (*Petlad*) ; Vasanji Kherai Thak[illegible]rar (J.P.), (*Porbandar*); Dipsinh J. Rathod (J.P.), (*Prantij*) ; Khodidan Bhimji Jhula (Cong.-I.), (*Radhanpur*) ; S[illegible]lal Parshotambhai Patel (J.P.), (*Rajgadh*) ; K[illegible]bhai Patel (J.P.), (*Rajkot I*) ; Arvindbhai Maniar (J.P.), (*Rajkot II*) ; Bhanubhai Gigabhai Waghela (Cong.-I.), (*Rajkot Rural—S.C.*) ; Chandulal S. Deshmukh (J.P.), (*Rajpipla—S.T.*) ; Jaswant Mehta (Cong.), (*Ra[illegible]*) M. K. Barot (Cong.-I.), (*Rakhial*) ; Badiabhai M. Gondiya (Cong.-I.), (*Randhikpur—S.T.*) ; Bhailalbhai Garbadas Contr[illegible] (J.P.), (*Raopura*) ; Harilal N. Patel (J.P.), (*Rapar*) ; B[illegible]bhai J. Patel (J.P.), (*Sabarmati*) ; N. K. Makw[illegible] (Cong.-I.), (*Saher Kotda*) ; Viraji Navaji Thakore (J.P.), (*Sami*) ; Bhaijibhai B. Tadvi (Cong.-I.), (*Sankeda—S.T.*) ; Jivabhai M. Damor (Cong.-I.), (*Santrampur*) ; B. K. Chauhan (J.P.), (*Sarkhej*) ; Govindbhai J. Patel (Cong.-I.), (*Sarsa*) ; Pratapsinh J. Parmar (Cong.-I.), (*Savli*) ; G. G. Paradkar (J.P.), (*Sayajigunj*) ; Pramodchand Chandulal Patel (J.P.), (*Shahpur*) ; Dhalabhai R. Parmar (Cong.-I.), (*Shehra*) ; Manubhai Vyas (Cong.), (*Shihori*) ; Vithaldas Dosabhai Patel (J.P.), (*Sidhpur*) ; Ishwarbhai N. Vaniker (J.P.), (*Sojitra—S.C.*) ; Smt. Ayisha Begumsaheb M. Sheikh (Cong.), (*Somnath*) ; V. G. Gamit (Cong.-I.), (*Songadh—S.T.*) ; P. M. Vyas (J.P.), (*Surat City*) ; K. C. Rana (J.P.), (*Surat City-East*) ; Shambhubhai V. Patel (Cong.), (*Surat City-North*) ; Gigabhai B. Gohil (Cong.-I.), (*Talaja*) ; Narsinh Dhanjibhai Padhiar (J.P.), (*Talala*) ; Gov[illegible] J. Boda (J.P.), (*Tankara*) ; Y. Y. Malek (Cong.-I.), (*Thasra*) ; C. V. Patel (Cong.-I.), (*Umbergaon—S.T.*) ; Hariharbhai U. Khambholja (Cong.-I.), (*Umreth*) ; Rasikchandra D. Acharya (J.P.), (*Una*) ; Dr. Kantilal M. Patel (J.P.), (*Unjha*) ; Jayram A. Patel (Cong.), (*Upleta*) ; Ashokbhai Amrabhai Dabhi (J.P.), (*Vadgam—S.C.*) ; Makarand Balwantray Desai (J.P.), (*Vadodara City*) ; Thakorbhai M. Patel (J.P.), (*Vadodara Rural*) ; Vijaykumar M. Trivedi (Cong.-I.), (*Vagdod*) ; Sanatkumar M. Mehta (Cong.-I.), (*Vaghodia*) ; Vijaysinhji Mansinghji Rana (J.P.), (*Vagra*) ; Hemabhai D. Parmar (Cong.-I.), (*Vav*) ; Amratbhai Kalidas Patel (J.P.), (*Vijapur*) ; Kas[illegible]bhai Mohmadbhai Achhava (J.P.), (*Viramgam*) ; Ku[illegible]bhai D. Bhesania (J.P.), (*Visavadar*) ; Shankalchand K. Patel (Ind.), (*Visnagar*) ; Amarsinh B. Ch[illegible] (Cong.-I.), (*Vyara—S.T.*) ; Juvansinh J. Parmar (J.P.), (*Wadhwan*) ; Janak Kumarsinhji R. Jhala (J.P.), (*Wankaner*).

HARYANA VIDHAN SABHA

Speaker : Col. Rao Ram Singh.

Dy. Speaker : Kanwar Vijai Pal Singh.

Seats : 90. *Electorate* : 5,952,669 ; *Votes Polled* : 3,828,060. *Party Position* : Janata Party: 79 ; Vishal Haryana Party : 5 ; Congress (I) : 3 ; Congress : 1 ; Independents : 2 ; Women members : 4.

Bhajan Lal (J.P.), (*Adampur*) ; Smt. Sushma Swaraj (J.P.), (*Ambala Cantt.*) ; Shiv Parshad (J.P.), (*Ambala City*) ; Jogi Ram (J.P.), (*Assandh—S.C.*) ; Rao Birendra Singh (V.H.P.), (*Ateli*) ; Ran Singh Mann (J.P.), (*Badhra*) ; Ude Singh Dalal (J.P.), (*Badli*) ; Mehar Singh Rathee (J.P.), (*Bahadurgarh*) ; Rajinder Singh (J.P.), (*Ballabgarh*) ; Bhale Ram (J.P.), (*Baroda—S.C.*) ; Jai Narain Verma (J.P.), (*Barwala*) ; Smt. Shakuntla Bhagwaria (J.P.), (*B[illegible]—S.C.*) ; Jagan Nath (J.P.), (*Bawani Khera—S.C.*) ; [illegible] Ram Singh (J.P.), (*Beri*) ; Devi Lal (J.P.), (*Bhattu Kalan*) ; Thakur Bir Singh (J.P.), (*Bhiwani*) ; Kanhiya Lal P[illegible] (Cong.), (*Chhachhrauli*) ; Mani Ram (J.P.), (*D[illegible]—S.C.*) ; Hukam Singh (J.P.), (*Dadri*) ; Jagdish K[illegible] Baniwal (J.P.), (*Darba Kalan*) ; Bhagi Ram (J.P.), (*[illegible]nabad—S.C.*) ; Deep Chand Bhatia (J.P.), (*F[illegible]*) ; Harphul Singh (J.P.), (*Fatehabad*) ; Shakrulla (Ind.), (*Ferozepur Jhirka*) ; Rampal Singh (J.P.), (*Gharaunda*) ; Kanwal Singh (J.P.), (*Ghirai*) ; Ganga Ram (J.P.), (*Gohana*) ; Ishwar Singh (J.P.), (*Guhla—S.C.*) ; [illegible]

Singh Thakran (J.P.), (*Gurgaon*) ; Baldev Tayal (J.P.), (*Hansi*) ; Sant Kanwar (J.P.), (*Hassangarh*) ; Gaya Lal (J.P.), (*Hassanpur—S.C.*) ; Swami Dayanand Sarswati (J.P.), (*Hathin*) ; Balwant Rai Tayal (J.P.), (*Hissar*) ; Des Raj (J.P.), (*Indri*) ; Dr. Brij Mohan Gupta (J.P.), (*Jagadhri*) ; Inderjit Singh (V.H.P.), (*Jatusana*) ; Capt. Mange Ram (J.P.), (*Jhajjar—S.C.*) ; Mange Ram Gupta (Ind.), (*Jind*) ; Zile Singh Malik (J.P.), (*Julana*) ; Subedar Prem Singh (J.P.). (*Jundla—S.C.*) ; Smt. Shanti Devi (J.P.), (*Kailana*) ; Raghu Nath Goyal (J.P.), (*Kaithal*) ; Jai Narain (J.P.), (*Kalanaur—S.C.*) ; Preet Singh (J.P.), (*Kalayat—S.C.*) ; Lachhman Singh (J.P.), (*Kalka*) ; Ram Lal Wadhwa (J.P.), (*Karnal*) ; Hari Chand Hooda (J.P.), (*Kiloi*) ; Hira Nand Arya (J.P.), (*Loharu*) ; Dalip Singh (V.H.P.), (*Mahindragarh*) ; Har Swarup Bura (J.P.), (*Meham*) ; Gajraj Bahadur Nagar (J.P.), (*Mewla Maharajpur*) ; Sher Singh (J.P.), (*Mullana—S.C.*) ; Tek Ram (J.P.), (*Mundhal Khurd*) ; Sumer Chand Bhatt (J.P.), (*Narnaul*) ; Shamsher Singh (Cong.-I.), (*Narwane*) ; Satvir (J.P.), (*Narnaund*) ; Sathi Ayodhya Prashad (J.P.), (*Narnaul*) ; Shamsher Singh (Cong.-I.), (*Narwane*) ; Satvir Singh Malik (J.P.), (*Naultha*) ; Shiv Ram Verma (J.P.), (*Nilokheri*) ; Sardar Khan (J.P.), (*Nuh*) ; Jagjit Singh Pohloo (V.H.P.), (*Pai*) ; Mool Chand Mangla (J.P.), (*Paliwal*) ; Fateh Chand Vij (J.P.), (*Panipat*) ; Narain Singh (V.H.P.), (*Pataudi—S.C.*) ; Tara Singh (J.P.), (*Pehowa*) ; Swami Agnivesh (J.P.), (*Pundri*) ; Lehri Singh Mehra (J.P.), (*Radaur—S.C.*) ; Rizaq Ram (J.P.), (*Rai*) ; Gulzar Singh (J.P.), (*Rajound*) ; Peer Chand (J.P.), (*Ratia—S.C.*) ; Col. Rao Ram Singh (J.P.), (*Rewari*) ; Om Parkash (J.P.), (*Rohat*) ; Dr. Mangal Sain (J.P.), (*Rohtak*) ; Sukhdev Singh (J.P.), (*Rori*) ; Bhagmal (J.P.), (*Sadhaura—S.C.*) ; Ram Kishan (J.P.), (*Safidon*) ; Rao Ram Narain (J.P.), (*Salhawas*) ; Mool Chand Jain (J.P.), (*Sambhalka*) ; Surinder Singh Aujla (J.P.), (*Shahabad*) ; Shankar Lal (J.P.), (*Sirsa*) ; Vijai Pal Singh (J.P.), (*Sohna*); Devi Dass (J.P.), (*Sonepat*) ; Khurshid Ahmed (J.P.), (*Taoru*) ; Devender Sharma (J.P.), (*Thanesar*) ; Karam Singh (J.P.), (*Tohana*) ; Surrender Singh (Cong.-I.), (*Tosham*) ; Birinder Singh (Cong.-I.), (*Uchana Kalan*) ; Smt. (Dr.) Kamla Verma (J.P.), (*Yamunanagar*).

HIMACHAL PRADESH VIDHAN SABHA

Speaker : Sarvan Kumar.

Dy. Speaker : R. S. Verma.

Seats : 68. *Electorate :* 19,97,405 ; *Votes Polled :* 11,69,894.

Party position : Janata Party 54 ; Congress 9 ; Independents 5 ; Woman member 1.

Ishar Dass (Cong.), (*Ani—S.C.*) ; Nagin Chandra Pall (J.P.), (*Arki*) ; Sant Ram (Cong.), (*Baij Nath*) ; Tulsi Ram (J.P.), (*Balh—S.C.*) ; Ranjit Singh Verma (J.P.), (*Bamsan*) ; Gian Chand (J.P.), (*Banikhet*) ; Maheshwar Singh (J.P.), (*Banjar*) ; Ram Chand (J.P.), (*Bharmour—S.T.*) ; Shiv Kumar (J.P.), (*Bhattiyat*) ; Anant Chand (Ind.), (*Bilaspur*) ; Moti Ram (J.P.), (*Chachiot*) ; Kishori Lal (J.P.), (*Chamba*) ; Hans Raj (J.P.), (*Chintpurni*) ; Radha Raman (J.P.), (*Copal*) ; Om Chand (J.P.), (*Dharampur*) ; Brij Lal (J.P.), (*Dharamsala*) ; Ram Pratap (Ind.), (*Doon*) ; Kaul Singh (J.P.), (*Drang*) ; Sadhu Ram (J.P.), (*Gagrat—S.C.*) ; Durga Dass (J.P.), (*Gangath—S.C.*) ; Bachitter Singh (J.P.), (*Geharwin—S.C.*) ; Narain Singh Swami (J.P.), (*Ghumarwin*) ; Rangila Ram (Cong.), (*Gopalpur*) ; Harbans Singh (J.P.), (*Guler*) ; Jagdev Chand (J.P.), (*Hamirpur*) ; Agya Ram (J.P.), (*Jaswan*) ; Kashmir Singh Rana (J.P.), (*Jawalamukhi*) ; Sujan Singh Pathania (J.P.), (*Jawali*) ; Gulab Singh (J.P.), (*Jogindernagar*) ; Ram Lal (Cong.), (*Jubbal-Kotkhai*) ; Partab Chaudhri (J.P.), (*Kangra*) ; Joginder Pal (J.P.), (*Karsog—S.C.*) ; Chaman Lal (J.P.), (*Kasauli—S.C.*) ; Roop Dass (Ind.), (*Kasumpti—S.C.*) ; Thakur Sen Negi (J.P.), (*Kinnaur—S.T.*) ; Daulat Ram Sankhyan (J.P.), (*Kotkehloor*) ; Kunj Lal (J.P.), (*Kulu*) ; Bhaskara Nand (J.P.), (*Kumarsain*) ; Ram Nath Sharma (J.P.), (*Kutlehar*) ; Devi Singh (J.P.), (*Lahaul-Spiti—S.T.*) ; Sukh Ram (Cong.), (*Mandi*) ; Amar Singh Chaudhri (J.P.), (*Mewa—S.C.*) ; Dile Ram (J.P.), (*Nachan—S.C.*) ; Narain Chand (Cong.), (*Nadaun*) ; Udho Ram (J.P.), (*Nadaunta*) ; Hardyal (Cong.), (*Nagrota*) ; Miss Shyama Sharma (J.P.), (*Nahan*) ; Vijayendra Singh (J.P.), (*Nalagarh*) ; Sat Mahajan (Cong.), (*Nurpur*) ; Siri Ram Jakhami (J.P.), (*Pachhad—S.C.*) ; Sarvan Kumar (J.P.), (*Palampur*) ; Milkh Raj (Ind.), (*Paonta-Doon*) ; Yog Raj (J.P.), (*Paragpur—S.C.*) ; Roop Singh (J.P.), (*Rainka*) ; Guler Chand (J.P.) , (*Rajgir—S.C.*) ; Mohan Lal (J.P.), (*Rajnagar—S.C.*) ; Ninzoo Ram (J.P.), (*Rampur—S.C.*) ; Satya Dev (J.P.), (*Roharoo*) ; Vijay Kumar Joshi (J.P:), (*Santokhgarh*) ; Ram Rattan (J.P.), (*Shahpur*) ; Guman Singh Chauhan (Cong.), (*Shillai*) ; Daulat Ram Chauhan (J.P.), (*Simla*) ; Gauri Shankar (J.P.), (*Solan*) ; Shanta Kumar (J.P.), (*Sulah*) ; Roop Singh (J.P.), (*Sundernagar*) ; Meher Singh Chauhan (J.P.), (*Theog*) ; Gian Chand (J.P.), (*Thural*) ; Des Raj (J.P.), (*Una*).

JAMMU AND KASHMIR LEGISLATIVE ASSEMBLY

Speaker : Malik Mehi-ud-Din.

Dy. Speaker : Janak Raj.

Seats : 76 ; *Electorate :* 2,661,057 ; *Votes Polled :* 1,803,921. *Party position :* National Conference 51 ; Janata Party 12 ; Congress 9 ; Unattached : 4 ; Jamait-i-Islami 1 ; Woman member : 1.

Dharam Paul (Cong.), (*Akhnoor*) ; Ghulam Mohidin Shah (N.C.), (*Amirakadal*) ; Mirza Mohd. Afzal Beg (N.C.), (*Anantnag*) ; Ghulam Hussain Jeelani (N.C.), (*Badgam*) ; Mohammod Khalil (N.C.), (*Bandipore*) ; Moulvi Abdul Rashid (N.C.) , (*Banihal*) ; Ghulam Din Shah (N.C.), (*Baramulla*) ; Smt. Gurbachan Kumari (J.P.), (*Baribrahamana—S.C.*) ; Mangat Ram (Cong.), (*Basohli*) ; Sayeed Ahmed Syed (N.C.), (*Beerwa*) ; Narayan Dass (J.P.), (*Bhaderwah—S.C.*) ; Abdul Ghani Veeri (N.C.), (*Bijbehara*) ; Dian Singh (J.P.), (*Billawar*) ; Parmanand (Cong.), (*Bishnah—S.C.*) ; Ram Nath (Ind.), (*Chaamb*) ; Abdul Samad Mir (N.C.), (*Chadora*) ; Abdul Rahim Rathat (N.C.), (*Charar-i-Shareef*) ; Bhim Singh (Cong.), (*Chenani Ghordi*).

Mohd. Hussain (N.C.), (*Darhal*) ; Ghulam Nabi Kochak (N.C.), (*Devsar*) ; Gh. Qadir Wayeen (N.C.), (*Doda*) ; Haji Abdul Ghani (N.C.) (*Dooru*) ; Sheikh Mohammed Abdullah (N.C.), (*Ganderbal*) ; Haji Buland Khan (N.C.), (*Ghulab Garh*) ; Mohammed Akbar Lone (N.C.), (*Gulmarg*) ; Ghulam Mohammed Bhatt (N.C.), (*Habbakadal*) ; Abdul Ghani Lone (J.P.), (*Handwara*) ; Ghulam Ahmed (N.C.), (*Haveli Poonch*) ; Hissam-udin Bandey (N.C.), (*Hazaratbal*) ; Girdhari Lal Dogra (Cong.), (*Hiranagar*) ; Abdul Salam Deva (N.C.), (*Home Shalibug*) ; Abdul Rashid Qabli (J.P.), (*Iddgah*) ; Gh. Mohd. Bhaderwahi (N.C.)l (*Inderwal*) ; Praduman Singh (Cong.), (*Jammu Cantt.*) ; Ram Nath Balgotra (J.P.), (*Jammu East*) ; Harbans Lal

Balgotra (J.P.), (*Jammu West*) ; Dhanraj Balgotra (J.P.), (*Jandrah-Gharota*).

Mian Bashir Ahmed (N.C.), (*Kangan*) ; Munshi Habibullah (N.C.), (*Kargil*) ; Ghulam Qadir Mir (N.C.), (*Karnah*) ; Dian Chand (J.P.), (*Kathua—S.C.*) ; Mohammed Yaseen (N.C.), (*Khan Sahib*) ; Bashir Ahmed Kichloo (N.C.), (*Kishtwar*) ; Ghulam Din (N.C.), (*Kokernag*) ; Ghulam Nabi Dar (N.C.), (*Kulgam*) ; Assadullah Shah (N.C.), (*Kupwura*) ; Mohd. Sultan Ganai (N.C.), (*Langet*) ; Sonam Narboo (N.C.), (*Leh*) ; Tulsi Ram (J.P.), (*Mark—S.C.*) ; Rafiq Hussain Khan (Ind.), (*Mehndar*) ; Abdul Samad Taili (N.C.), (*Nagin*) ; Wali Mohammed Ittu (N.C.), (*Noorabad*) ; Master Beliram (Cong.), (*Nowshera*) ; Pyare Lal Handoo (N.C.), (*Pahalgam*) ; Ghulam Mohidin Malik (N.C.), (*Pampore*) ; Abdul Rashid Shaheen (N.C.), (*Pattan*); Mohammed Ibrahim Dar (N.C.), (*Pulwama*).

Mohammed Dilawar Mir (N.C.), (*Rafiabad*) ; T[illegible] Hussain (N.C.), (*Rajouri*) ; Premnath Raju (N.C.), (*[illegible]*) ; Prithvi Chand (J.P.), (*[illegible]—S.C.*) ; Janak Raj (Cong.), (*Ranbirsinghpura*) ; [illegible] Kaushal (J.P.), (*Reasi*) ; Dian Singh (Ind.), (*S[illegible]*) ; Ghulam Rasul Bhat (N.C.), (*Sangrama*) ; [illegible] Ashraf Khan (N.C.), (*Shangur*) ; Sheikh Mohd. [illegible] (N.C.), (*Shopian*) ; Abdul Aziz Parray (N.C.), (*S[illegible]*) ; Syed Ali Shah Geelani (Jamait Islami), (*Sopore*) ; Ch. Mohd. Aslam (Cong.), (*Surankote*) ; Smt. Nirmal Devi (Cong.), (*Tikri*) ; Mohammed Subhan Bhat (N.C.), (*Tral*) ; Shiv Charan Gupta (Ind.), (*Udhampur*) ; Mohammed Shaffi (N.C.), (*Uri*) ; Ghulam Qadir [illegible] (N.C.), (*Wachi*) ; Ghulam Ahmed [illegible] (N.C.), (*Zaddibal*) ; Moulvi Mohd. Yaseen Hamdani (N.C.), (*Zainakadal*).

JAMMU AND KASHMIR LEGISLATIVE COUNCIL

Chairman : Hakkim Habibulla.

Deputy Chairman : S. Gurmukh Singh.

Strength : 36 ; Vacant : 2.

Legislative Assembly : Attaullah Soharwardy, Mohd. Din Bandey, Ch. Mohd. Shafi, Yakub Beg, Abdul Javed Sheik, Hafiz Ulla Shah, Mohammed Khan, Bhodh Raj, Bashir Ahmed, Aziz Mohammad, Ch. Fateh Mohamad, P. Namgial, T. R. Atri, Gurmukh Singh, A. R. Badana, Mohammed Dilawar Lone, Sri Ram Parihar, Ghulam Mohammed Shah, Dr. Harbhajan Singh, Parmanand, Chuni Lal Sharma, Syed Hussain.

Local Authorities : Mohan Kishen Tickoo, Vacant 1.

Panchayat Constituencies : Moti Ram Baigra, Kulbir Singh, Hakim Habib-Ullah, Vacant 1.

Nominated : Moulvi Iftikhar Hussain Ansari, Haji Mir Alam, Bhagat Chaju Ram, Wazir Masih, C. L. Dhiman, Abdul Gani Mastfaridi, Om Prakash Saraf, Devi Dass Thakur.

KARNATAKA LEGISLATIVE ASSEMBLY

Speaker : P. Venkataramana.

Dy. Speaker : Smt. Sumati Madiman.

Seats : 224 ; *Electorates* : 17,896,138 ; *Votes Polled* : 12,840,696 ; *Party Position* : Congress (Indira) : 154 ; Janata Party : 58 ; Congress : 2 ; Communist Party of India : 3 ; Muslim League : 1 ; Independent & others : 7.

M. Y. Patil (J.P.), (*Afzalpur*) ; A. R. Bheem Rao Patil (J.P.), (*Alland*) ; Y. Ramakrishna (J.P.), (*Anekal—S.C.*) ; Smt. Anasuya Gajanana Sharma (J.P.), (*Ankola*) ; D. B. Gangadharappa (Cong.-I.), (*Arsikere*) ; Koujalgi V. Shivalingappa (Cong.-I.), (*Arbhavi*) ; K. B. Mallappa (J.P.), (*Arakalgud*) ; D. B. Pawar (Cong.-I.), (*Athani*) ; Manik Rao Patil (Cong.-I.), (*Aurad*) ; C. B. Bhimappa (Cong.-I.), (*Badami*) ; K. P. Karadesappa (Cong.-I.), (*Bagalkot*) ; S. Muniraju (Cong.-I.), (*Bagepalli*) ; A. G. Laxman (Ind.), (*Bagewadi*) ; B. E. Channabasappa (Cong.), (*Bailhongal*) ; Gopalakrishna Kodgi (Cong.-I.), (*Baindur*) ; A. [illegible] (J.P.), (*[illegible]—S.C.*) ; K. Madegowda (Cong.-I.), (*Bannur*) ; B. A. Mohideen (Cong.-I.), (*Bantwal*) ; Bapu Rao Hulsoorker (Cong.-I.), (*Basavakalyan*) ; P. B. G. Somana Gowda (J.P.), (*Basavana Bageevadi*) ; T. R. Shamanna (J.P.), (*Basavanagudi*) ; S. B. Bhimrao (Ind.), (*Belgaum*) ; K. Bhaskar Naidu (Cong.-I.), (*Bellary*) ; G. S. Shivananjappa (J.P.), (*Bellari*) ; K. Gangadhara (Cong.-I.), (*Belthangadi*) ; B. M. Lakshmanaiah (J.P.), (*Belur—S.C.*) ; C. Venkateshappa (Cong.-I.), (*Bethamangala—S.C.*) ; G. Rajashekar (Cong.-I.), (*Bhadravati*) ; B. Shivalingappa Khandre (Cong.), (*Bhalki*) ; T. Chowdaiah (Cong.-I.), (*Bharamasagara—S.C.*) ; Michael B. [illegible] (J.P.), (*[illegible]*) ; [illegible] M. Yahya (Cong.-I.), (*Bhatkal*) ; V. M. Kusnoor (Cong.-I.), (*Bidar*) ; [illegible] (J.P.), (*[illegible]*) ; S. [illegible] Patil (Cong.-I.), (*[illegible]*) ; I. P. D. Salappa (Cong.-I.), (*Binnypet*) ; M. Mallappa (Cong.-I.), (*Birur*) ; A. K. [illegible] (Cong.-I.), (*[illegible]*) ; M. M. Mallagappa (Cong.-I.), (*[illegible]—S.C.*).

B. N. Kenge Gowda (Cong.-I.), (*Chamaraja*) ; M. C. Basappa (J.P.), (*Chamarajanagar*) ; Kum. S. Pramila (J.P.), (*Chamarajpet*) ; D. Jayadevaraja Urs (Cong.-I.), (*Chamundeshwari*) ; J. H. Patel (J.P.), (*Channagere*) ; D. T. Rama (Cong.-I.), (*Channapatna*) ; N. Jayanna (Cong.-I.), (*Challakere*) ; Smt. Renuka Rajendran (Cong.-I.), (*Chikkaballapur—S.C.*) ; C. A. Chandre Gowda (Cong.-I.), (*Chikmagalur*) ; N. Basavaiah (Cong.-I.), (*Chikkanayakanahalli*) ; P. Padmanna Hegre (Cong.-I.), (*[illegible]—S.C.*) ; A. Lakshmisagar (J.P.), (*Chikpet*) ; D. G. Jamadar (Cong.-I.), (*Chincholi*) ; Chowda Reddi (Cong.-I.), (*Chintamani*) ; Prabhakar R. Telkar (Cong.-I.), (*Chitapur*) ; Y. Masiyappa (Cong.-I.), (*Chitradurga*) ; K. [illegible] Shetty (J.P.), (*Coondapur*) ; Pampapathi (C.P.I.), (*Davangere*) ; B. Shivanna (Cong.-I.), (*Deodurg—S.C.*) ; K. Narayanappa (J.P.), (*Devanahalli—S.C.*) ; [illegible] Deshpande (J.P.), (*Dharwar*) ; Smt. Sumati B. Madiman (Cong.-I.), (*Dharwar Rural*) ; G. Rame Gowda (Cong.-I.), (*Doddaballapura*).

M. C. Shantayya (J.P.), (*Gadag*) ; H. [illegible] (Cong.-I.), (*Gandsi*) ; K. Lakshman (Cong.-I.), (*Gandhinagar*) ; C. Y. Shesha Rao (Cong.-I.), (*[illegible]*) ; L. Siddappa Naik (Cong.-I.), (*Gokak—S.T.*) ; B. N. K. Papaiah (Cong.-I.), (*Gowribidanur*) ; [illegible] Gatti (Cong.-I.), (*Gubbi*) ; Qamarul Islam (M.L.), (*Gulbarga*) ; J. B. Veeranna Gowda (Cong.-I.), (*[illegible]*) ; H. K. Shivarudrappa (Ind.), (*Gundlupet*) ; Mallikarjun Kharge (Cong.-I.), (*Gurmitkal—S.C.*).

Karibasavanagoud Kogali (Cong.-I.), (*H[illegible]*) ; V. M. Ghadi (Cong.-I.), (*[illegible]*) ; M. H. [illegible] (Cong.-I.), (*Hanagal*) ; G. Raju Gowda (Cong.-I.), (*[illegible]*) ; D. Narayanadas (Cong.-I.), (*H[illegible]—S.C.*) ; [illegible] Basavana Gowda (Cong.-I.), (*Harihar*) ; K. H. [illegible] Gowda (Cong.-I.), (*Hassan*) ; F. S. Taware (Cong.-I.), (*Havari*) ; Smt. Susheela Cheluvaraj (Cong.-I.), (*[illegible]—S.C.*) ; G. S. [illegible] Gowda (Cong.-I.), (*Hirekerur*) ; K. H. Ranganath (Cong.-I.), (*H[illegible]*)

K. H. Siddaramappa (Cong.-I.), (*Holalkere*) ; G. Basawannappa (Cong.-I.), (*Holehonnur—S.C.*) ; H. D. Devegowda (J.P.), (*Holenarasipur*) ; H. B. Kadasiddappa (Cong.-I.), (*Honnali*) ; K. Venkataramaiah (Cong.-I.), (*Hosadurga*) ; M. S. Chandra Shekhar (Cong.-I.), (*Hosanagar*) ; Bache Gowda (J.P.), (*Hoskote*) ; K. Gudu Saheb (Cong.-I.), (*Hospet*) ; Jartargar M. Govindasa (J.P.), (*Hubli*) ; B. S. Rayappa (J.P.), (*Hubli Rural*) ; M. S. S. Shivalingappa (Cong.-I.), (*Hukkeri*) ; D. T. Mayanna (J.P.), (*Huliyurdurga*) ; Madanlal Bandeppa (Cong.-I.), (*Hulsoor—S.C.*) ; B. Hawgappa Patil (J.P.), (*Humnabad*) ; K. S. Sugurappa (Ind.), (*Hungund*) ; D. Devaraj Urs (Cong.-I.), (*Hunsur*) ; B. Somanagouda Patil (J.P.), (*Huvin Hippargi*).

K. R. Ramagondappa (J.P.), (*Indi*) ; C. H. Aswatha Reddy (P.P.), (*Jagalur*) ; V. Veerappa Pattar (Cong.-I.), *Jamakhandi*) ; Jeevaraj Alva (J.P.), (*Jayamahal*) ; M. Chandrashekar (J.P.), (*Jayanagar*) ; D. S. Narayan Singh (Cong.-I.), (*Jewargi*) ; K. M. Thammaiah (J.P.), (*Kadur*) ; B. J. Anna Rao (Cong.-I.), (*Kagwad*) ; F. Shivanagouda Patil (J.P.), (*Kalghatgi*) ; T. B. Jayachandra (Cong.-I.), (*Kallambella*) ; Sudhendra Rao Kasbe (Cong.-I.), (*Kalmala*) ; Govind P. Vadeyaraj (J.P.), (*Kamalapur—S.C.*) ; M. Nagappa Mukappa (Cong.-I.), (*Kanakagiri*) ; C. Appaji (Cong.-I.), (*Kanakapura*) ; M. Veerappa Moily (Cong.-I.), (*Karkala*) ; D. V. Waingakar (Cong.-I.), (*Karwar*) ; B. Bhaskar Shetty (Cong.-I.), (*Kaup*) ; H. D. Chowdaiah (J.P.), (*Keragodu*); S. N. Bhagawanthrao (Ind.), (*Khanapur*) ; G. Madegowda (J.P.), (*Kiragaval*) ; A. P. P. Basangouda (J.P.), (*Kittur*) ; M. Abdul Latheef (Cong.-I.), (*Kolar*) ; C. M. Arumugham (R.P.I.), (*Kolar Gold Field—S.C.*) ; M. Siddamadaiah (Cong.-I.), (*Kollegal—S.C.*) ; V. P. Mudgal (Cong.-I.), (*Koppal*) ; Muddaramaiah (Cong.-I.), (*Koratagere*) ; M. M. J. Sadyojatha (Cong.-I.), (*Kottur*); K. Gangadharan (J.P.), (*Krishnaraja*) ; H. Vishwanath (Cong.-I.), (*Krishnarajnagar*) ; S. M. Lingappa (J.P.), (*Krishnarajpet*) ; T. Somappa (Cong.-I.), (*Kudligi*) ; S. Vasudev Naik (Cong.-I.), (*Kumta*) ; K. M. Shivappa (Cong.-I.), (*Kundgol*) ; Andanaiah (Cong.-I.), (*Kunigal*) ; M. Ramappa (Cong.-I.), (*Kurugodu*) ; H. G. Bheemappa (Cong.-I.), (*Kushtagi*).

Basavaraj Patil (Cong.-I.), (*Lingasugur*) ; M. Manchegowda (Cong.-I.), (*Maddur*); Ganga Hanumaiah (Cong.-I.), (*Madhugiri—S.C.*) ; M. C. Nanaiah (Cong.-I.), (*Madikeri*) ; Bettaswamy Gowda (J.P.), (*Magadi*) ; K. L. Mariswamy (J.P.), (*Malavalli—S.C.*) ; P. Ramdev (J.P.), (*Malleswaram*) ; P. N. Reddy (Cong.-I.), (*Malur*) ; M. S. Atmananda (J.P.), (*Mandya*) ; P. F. Rodrigues (Cong.-I.), (*Mangalore*) ; R. A. N. Dorai (Cong.-I.), (*Manvi*) ; Smt. Nagamma Keshava Murthy (Cong.-I.), (*Mayakonda*) ; P. P. Naik (Cong.-I.), (*Molakalmuru*) ; Dr. Damodar Molky (Cong.-I.), (*Moodabidri*) ; D. J. Sanganabasappa (J.P.), (*Muddebihal*) ; K. J. Kalasappa (Cong.-I.), (*Mudhol—S.C.*) ; Kum. Motamma (Cong.-I.), (*Mudigere—S.C.*) ; J. M. Reddy (Cong.-I.), (*Mulbagal*) ; B. V. Basappa (Cong.-I.), (*Mundaragi*) ; H. T. Krishnappa (Cong.-I.), (*Nagamangala*) ; K. B. Shivaiah (Cong.-I.), (*Nanjangud*) ; B. R. Patil (Cong.-I.), (*Naragund*) ; Azeez Sait (Cong.-I.), (*Narasimharaja*) ; P. S. Virupaksha Gouda (Cong.-I.), (*Navalgund*); K. Prabhakar (Cong.-I.), (*Nelmangala–S.C.*); Balvant G. Chavan (Ind.), (*Nippani*).

K. R. Rajagopal (J.P.), (*Pandavapura*) ; T. G. Khanashah (Cong.-I.), (*Parasgad*) ; Nagappa (Cong.-I.), (*Pavagada—S.C.*) ; K. S. Kalamarigowda (J.P.), (*Periyapatna*) ; K. Rama Bhat (J.P.), (*Puttur*) ; N. R. Shidling (J.P.), (*Raibag—S.C.*) ; N. A. Siddiqui (Cong.-I.), (*Raichur*) ; Mallur Ananda Rao (J.P.), (*Rajajinagar*) ; A. K. Abdul Samad (Cong.-I.), (*Ramanagaram*); R. S. S. Patil (Cong.-I.), (*Ramdurg*) ; H. N. Somalingappa (Cong.-I.), (*Ranibennur*) ; M. V. Adiveppa (Ind.), (*Ron*) ; B. A. Balaji (Cong.-I.), (*Sadalga*) ; L. T. Thimmappa Hegde (Cong.-I.), (*Sagar*) ; J. D. Somappa (Cong.-I.), (*Sakleshpur*) ; C. Rudrappa (Cong.-I.), (*Sandur*) ; M. S. Patil (Cong.-I.), (*Sankeshwar*) ; M. Madaiah (Cong.-I.), (*Santhemaraballi—S.C.*) ; K. L. Shivalinga Gowda (J.P.), (*Sathanar*); Sher Khan (Cong.-I.), (*Sedam*) ; S. F. Bhairy (C.P.I.), (*Shahabad—S.C.*) ; Shivanna Sawoor (Cong.-I.), (*Shahpur*) ; P. K. Ranganathan (Cong.-I.), (*Shantinagar—S.C.*) ; N. M. Sab Mardansab (Cong.-I.), (*Shiggaon*) ; K. Yenkatappa (Cong.-I.), (*Shikaripur*) ; K. H. Srinivasa (Cong.-I.), (*Shimoga*) ; G. K. Upanal (Cong.-I.), (*Shirhatti*) ; C. M. Ibrahim (J.P.), (*Shivajinagar*) ; Rajkumar Naik (Cong.-I.), (*Shorapur*) ; S. Munishamappa (Cong.-I.), (*Sidlaghatta*) ; B. M. Hassan Saheb (Cong.-I.), (*Sindgi*) ; Narayanappa Hanumanthappa (Cong.-I.), (*Sindhanoor*) ; S. Lingaiah (Cong.-I.), (*Sira*) ; B. Umakant Buddu (J.P.), (*Sirsi—S.C.*) ; B. E. Ramaiah (Cong.-I.), (*Siruguppa*) ; R. Gundu Rao (Cong.-I.), (*Somwarpet*) ; S. Bangarappa (Cong.-I.), (*Sorab*) ; H. C. Srikantaiah (Cong.-I.), (*Sravanabelagola*) ; B. Ramaiah (Cong.-I.), (*Sringeri*) ; Ramesh Kumar (Cong.-I.), (*Srinivasapura*) ; M. Srinivas (J.P.), (*Srirangapatna*) ; A. Ramachandra (J.P.), (*Sullia—S.C.*) ; Subbayya Shetty (Cong.-I.), (*Suratkal*).

P. Venkataramana (Cong.-I.), (*T. Narsipur—S.C.*) ; H. M. Mallikarjunappa (Cong.-I.), (*Tarikere*) ; Kadidal Divakara (Cong.-I.), (*Tirthahalli*) ; B. Bapugouda Patil (J.P.), (*Tikota*) ; V. L. Shivappa (Cong.-I.), (*Tiptur*) ; Nazir Ahmed (Cong.-I.), (*Tumkur*) ; K. H. Ramkrishnaiah (Cong.-I.), (*Turuvekere*) ; P. P. Anapa (Ind.), (*Uchagaon*) ; Smt. Manorama Madhavaraj (Cong.-I.), (*Udipi*) ; U. T. Fareed (Cong.-I.), (*Ullal*); M. V. Rajashekaran (J.P.), (*Uttarhalli*) ; B. V. Ramachandra Reddy (J.P.), (*Varthur*) ; S. Govinda Gowda (Cong.-I.), (*Vemgal*) ; G. K. Subbaiah (Cong.-I.), (*Virajpet—S.T.*) ; B. V. Kakkilaya (C.P.I.), (*Vittal*) ; S. N. Kalburgi (Cong.-I.), (*Yadgir*) ; B. Basavalingappa (Cong.-I.), (*Yelahanka—S.C.*) ; S. Shiva Shankar Rao (Cong.-I.), (*Yelburga*) ; William St. John S. Marley (*Nominated*).

KARNATAKA LEGISLATIVE COUNCIL

Chairman : S. Sivappa ; *Dy. Chairman :* R. G. Jagirdar ; *Leader of the House :* B. Basavalingappa.

Party position : Cong.-I. : 20 ; Janata Party : 22 ; Congress : 10 ; Independents : 7 ; Vacant : 4 ; Total : 63. Women members : 6.

Elected by the Legislative Assembly (21) : Abdul Nazir (Cong.) ; Basangonda Mallana Gouda Patil (J.P.) ; H. M. Ismail Tabish (Cong.) ; R. G. Jagirdar (Cong.) ; N. N. Kallannavar Ningappa (Cong.) ; Kalyan Rao M. Maragutti (J.P.) ; S. M. Krishna (Cong.) ; Mujawar Abdul Gaffar Hussain (Cong.) ; T. N. Narasimha Murthy (Cong.) ; B. V. Narayan (Cong.) ; M. C. Perumal (Cong.) ; M. Raghupathy (Cong.) ; D. Rajagopal (J.P.) ; Rambhau Bhimrao Potdar (J.P.) ; K. Rangappa (Cong.) ; H. T. Reddy (Cong.) ; Smt. Sarojini Thimme Gowda (J.P.) ; S. Sivappa (Cong.) ; M. V. Venkatappa (Cong.) ; P. Venkataramana (Cong.).

Local Authorities' Constituency (21) : J. Srinivasa Reddy (J.P.), (*Bangalore*) ; R. Dayananda Sagar (Cong.), (*Bangalore*) ; Bolashetti Baburao Annappa (Cong.), (*Belgaum*) ; V. M. Katti (Cong.), (*Belgaum*) ; H. B. Narayanaswamy (Cong.), (*Bellary*) ; N. M. Kheny (Cong.), (*Bidar*) ; Channaiah Odeyar (Cong.), (*Chitradurga*) ; P. T. Desai (Cong.), (*Dharwar*) ; S. R. Bommai (J.P.), (*Dharwar*) ; Baswanth Rao Shivappa Gowda Patil (Cong.), (*Gulbarga*) ; L. T. Karle (Cong.), (*Hassan*) ; S. M. Aswathanarayana

Shetty (Cong.), (*Kolar*); M. V. Venkatappa (Cong.), (*Mandya*); D. Jaya Devaraj Urs (Cong.), (*Mysore-cum-Coorg*); D. Kariappa Gowda (Cong.), (*Mysore-cum-Coorg*); R. S. Bhagwat (J.P.), (*North Kanara*); Smt. Basavarajeswari Shivanna Basavaraj (Cong.), (*Raichur*); B. S. Viswanatha (J.P.), (*Shimoga-Chickmagalur*); B. Narayana Nayak (Cong.), (*South Kanara*); B. G. Bhagavan (Cong.), (*Tumkur*).

Graduates' Constituency (6) : Gurviaiah Setty (J.P.), (*Bangalore*); V. S. Krishna Iyer (J.P.), (*Bangalore*); Y. S. Patil (J.P.), (*Karnataka Central*); S. Mallikarjunaiah (J.P.), (*Karnataka East*); B. K. Gudadinni (Cong.), (*Karnataka North*); A. K. Subbaiah (J.P.), (*Karnataka South-West*).

Teachers' Constituency (6) : S. I. Shettar (J.P.), (*Karnataka North Central*); D. S. Ganachari (J.P.), (*Karnataka North-East*); G. K. Kulkarni (Ind.), (*Karnataka North-West*); T. A. Reddy (Cong.), (*Karnataka South-Central*); Smt. B. Padmavati Vittal Rao (Ind.), (*Karnataka South-East*); S. Channabasavaiah (Cong.), (*Karnataka South-West*).

Nominated (9) : Hajee Abdul Sattar Sait (Cong.); Smt. J. Mandana (Cong.); A. Masana Chetty (Cong.); Smt. Octavia Albuquerque (Cong.); Smt. Praveen C. Kamalani (Cong.); M. V. Rama Rao (Ind.); H. T. Sastur (Cong.); Shanthamallappa Patil (Cong.); T. V. Venkataswamy (Cong.).

KERALA LEGISLATIVE ASSEMBLY

Speaker : Chakkeeri Ahmed Kutty; *Deputy Speaker :* P. K. Gopalakrishnan.

Seats : 141; *Party Position :* Communist Party : 23; Congress : 21; Kerala Congress : 20; Congress-I : 18; Communist Party — Marxist : 18; Muslim League : 11; Revolutionary Socialist Party : 9; Janata Party : 9; National Democratic Party : 4; Praja Socialist Party : 3; Muslim League (Opp.) : 3.

Woman member : 1. Vacant : 1.

Tennala Balakrishnan Pillai (Cong.-I.), (*Adoor*); E. M. S. Nambudiripad (C. P. I. M.), (Alathur); P. K. Vasudevn Nair (C.P.I.), (*Alleppey*); T. H. Mustafa (Cong.-I.), (*Alwaye*); K. K. Kumara Pillai (J.P.), (*Ambalapuzha*); A. P. Kurian (C.P.I.-M). (*Angamali*); M. K. Hemachandran (Cong.), (*Aranmula*); K. C. Vamadevan (R.S.P.), (*Aryanad*); P. S. Srinivasan (C.P.I.), (*Aroor*); Vakkom Purushothaman (Cong.-I), (*Attingal*); Chatayan Govindan (C.P.I.-M.), (*Azhikode*); K. Chandrasekharan (J.P.), (*Badagara*); P. K. Sankarankutty (J.P.), (*Balusseri*); N. P. Moideen (Cong.), (*Beypore*); N. Chandrasekhara Kurup (C.P.I.-M), (*Calicut I*); P. M. Abubacker (M.L.-O), (*Calicut II*); P. Bhaskaran (J.P.), (*Cannanore*); E. Chandrasekharan Nair (C.P.I.), (*Chadayamangalam*); P. K. Ittoop (J.P.), (*Chalakudi*); K. J. Chacko (K. Cong.), (*Changanacherry*); J. Chitharanjan (C.P.I.), (*Chathannur*); Baby John (R.S.P.) (*Chavara*); K. K. Balakrishnan (Cong.), (*Chelakkara—S.C.*); S. Thankappan Pillai (N.D.P.), (*Chengannur*), K. P. Prabhakaran (C.P.I.), (*Cherpu*); P. Sankar (C.P.I.), (*Chittur*); K. Narayanaswami (Cong.), (*Devikulam—S.C.*); P. P. V. Moosa (M.L.-O), (*Edakkad*); R. S. Unni (R.S.P.), (*Eravipuram*); A. L. Jacob (Cong.), (*Ernakulam*); P. B. R. Pillai (J.P.), (*Ettumanoor*); N. V. Seethithangal (M.L.), (*Guruvayoor*); G. P. Mangalathu Madam (P.S.P.), (*Haripad*); K. T. Kumaran (C.P.I.), (*Hosdurg—S.C.*); V. T. Sebastian (K. Cong.), (*Idukki*); C. P. Govindan Nambiar (Cong.), (*Irikkur*); Siddhardan Kattungal (Cong.), (*Irinjalakuda*); O. Lukose (K. Cong.), (*Kaduthuruthy*); T. S. John (K. Cong.), (*Kallooppara*); Dr. K. G. Adiyodi (Cong.-I), (*Kalpetta*); K. V. Kurian (K. Cong.), (*Kanjirappally*); B. M. Sheriff (C.P.I.), (*Karunagappally*); Vacant (*Kasaragod*); T. Kunjukrishna Pillai (Cong.-I), (*Kayamkulam*), A. K. Antony (Cong.), (*Kazhakuttam*); P. K. Chathan Master (C.P.I.), (*Kilimanoor—S.C.*); Lonappan Nambadan (K. Cong.), (*Kodakara*); V. K. Rajan (C.P.I.), (*Kodungallur*); E. Ahmed (M.L.), (*Koduvally*); C. Vasudeva Menon (C.P.I.-M.), (*Kollengode*); P. Seethi Hajee (M.L.), (*Kondotty*); P. J. Thomas (Cong.-I), (*Konni*); M. V. Mani (K. Cong.), (*Kothamangalam*); R. Balakrishna Pillai (J.P.), (*Kottarakkara*); P. P. George (C.P.I.), (*Kottayam*); Neelalohitadasan Nadar (J.P.), (*Kovalam*); M. K. Krishnan (C.P.I.-M) (*Kozhalmannam — S.C.*); A. A. Rahim (Cong.-I), (*Kundara*); K. P. Raman (M.L.-O.), (*Kunnamangalam—S.C.*); K. P. Viswanathan (Cong.), (*Kunnamkulam*); P. P. Esthose (C.P.I.-M), (*Kunnathunad*); Kallada Narayanan (R.S.P.), (*Kunnathur—S.C.*); Pinarayi Vijayan (C.P.I.-M), (*Kuthuparamba*); Eapen Kasidakudy (K. Cong.), (*Kuttanad*); Chakkeeri Ahmedkutty (M.L.), (*Kuttipuram*); K. Karunakaran (Cong.-I), (*Mala*); P. V. Kunhikannan (C.P.I.-M.), (*Malampuzha*); C. H. Mohammed Koya (M.L.), (*Malappuram*); N. I. Devassykutty (Cong.-I), (*Manalur*); P. M. Abdulla Kurikkal (M.L.), (*Manjeri*); M. Ramappa (C.P.I), (*Manjeshwar*); K. Ahmed Hajee (M.L.), (*Mankada*); A. N. Yusuf (C.P.I.), (*Mannarkkad*); A. V. Tamarakshan (R.S.P.), (*Mararikulam*); K. J. Herschel (J.P.), (*Mattancherry*); Bhaskaran Nair (N.D.P.), (*Mavelikkara*); P. Kunhimohammed (M.L.), (*Meppayur*); P. C. Joseph (K. Cong.), (*Muvattupuzha*); Kandalottu Kunhambu (C.P.I.), (*Nadapuram*); T. A. Paraman (R.S.P.), (*Narakkal — S. C.*); P. K. Gopalakrishnan (C.P.I.), (*Nattika*); K. Ramachandran (C.P.I.), (*Nedumangad*); Mrs. Bhargavi Tankappan (C.P.I.), (*Neduvathur—S.C.*); S. Varadarajan Nair (Cong.), (*Nemom*); R. Sundaresan Nair (N.D.P.), (*Neyyattinkara*); Aryadan Muhamed (Cong.), (*Nilambur*); P. R. Francis (Cong.), (*Ollur*); P. Balan (Cong.-I), (*Ottapalam*); K. M. Mani (K. Cong.), (*Palai*); C. M. Sundaram (P.S.P.), (*Palghat*); Eapen Varghese (K. Cong.), (*Pallurthy*); Damodaran Kalasseri (Cong.), (*Pandalam—S.C.*); M. Kunjukrishnan Nadar (Cong.), (*Parassala*); Xavier Arakkal (Cong.), (*Parur*); Dr. George Mathew (K. Cong.), (*Pathanamthita*); E. K. Pillai (C.P.I.), (*Pathanapuram*); E. P. Gopalan (C.P.I.), (*Pattambi*); N. Subramania Shenoy (C.P.I.-M), (*Payyannur*); C. A. Kurian (C.P.I.), (*Peermade*); Dr. K. C. Joseph (K. Cong.), (*Perambra*); K. P. Nuruddin (Cong.), (*Peravoor*); P. P. Karup (Cong.-I), (*Peringalam*); K. K. S. Thangal (M.L.), (*Perinthalmanna*); P. R. Sivan (C.P.I.-M.), (*Perumbavoor*); T. M. Jacob (K. Cong.), (*Piravam*); P. Gangadharan (Cong.-I), (*Ponnani*); V. J. Joseph (K. Cong.), (*Poonjar*); P. K. Sreenivasan (C.P.I.), (*Punalur*); Oommen Chandy (Cong.), (*Puthuppalli*), E. Narayanan Nair (Cong.-I), (*Quilandy*); Thyagarajan (R.S.P.), (*Quilon*); K. A. Mathew (K. Cong.), (*Ranni*); M. K. Raghavan (Cong.), (*Shertallai*); K. Sankaranunni (Cong.), (*Sreekrishnapuram*); K. Raghavan Master (Cong.-I), (*Sultan's Battery—S.T.*); M. V. Raghavan (C.P.I.-M), (*Taliparamba*); U. A. Beeran (M.L.), (*Tanur*); Pattiam Gopalan (C.P.I.-M), (*Tellicherry*); E. John Jacob (K. Cong.), (*Thiruvalla*); Cyriac John (Cong.), (*Thiruvambadi*); P. J. Joseph (K. Cong.), (*Thodupuzha*), P. T. Kunhutty Hajee (M.L.), (*Tirur*); K. Avukaderkutty Naha (M.L.), (*Tirurangadi*); K. J. George (J.P.), (*Trichur*); P. Karunakaran (C.P.I.-M), (*Trikaripur*); T. K. Ramakrishnan (C.P.I.-M), (*Trippunithura*); K. Sankaranarayanan (Cong.), (*Trithala*); K. Anirudhan (C.P.I.-M), (*Trivandrum East*); K. [illegible]

(N.D.P.), (*Trivandrum North*) ; K. Pankajalkshan (R.S.P.), (*Trivandrum West*); N. K. Balakrishnan (P.S.P.), (*Uduma*); Thomas Joseph (K. Cong.), (*Udumbanchola*) ; T. K. Abdul (C.P.I.-M), (*Vadakkekara*) ; M. K. Kesavan (C.P.I.), (*Vaikkom—S.C.*) ; N. Vasudevan Pillai (C.P.I.-M), (*Vamanapuram*) ; T. A. Majeed (C.P.I.), (*Varkala*) ; K. Narayana Kurup (K. Cong.), (*Vazhoor*) ; K. S. N. Namboodiri (Cong.-I), (*Wadakkancherry*) ; V. Eacharan (Cong.-I), (*Wandoor—S.C.*) ; M. V. Rajan (Cong.-I), (*Wynad North—S.T.*) ; *Nominee :* Stephen Padua.

MADHYA PRADESH LEGISLATIVE ASSEMBLY

Speaker : Mukund Sakharam Nawalkar ; *Dy. Speaker :* Ramchandra Maheshwari.

Seats : 321 ; *Party Position :* Janata Party : 229 ; Cong.-I. : 59 ; Cong. : 24 ; Independents : 7 ; Nominated : 1 ; Women members : 10.

Chetram Sahu (J.P.), (*Abhanpur*) ; Satyanarayan Jatia (J.P.), (*Agar—S.C.*); RajindraKumar Singh(Cong.-I.), (*Akaltara*) ; Bhagwansingh Chauhan (J.P.), (*Alirajpur—S.T.*) ; Navratan Sankla (J.P.), (*Alot—S.C.*) ; Jagsuriya (J.P.), (*Amanganj—S.C.*) ; Ramhit Gupta (J.P.), (*Amarpatan*) ; Dakhanshah Thakur (Ind.), (*Amarwara—S.T.*) ; Chokhe Lal (J.P.), (*Ambah—S.C.*) ; P. N. Tripathi (J.P.), (*Ambikapur*) ; Gurubax Atulkar (Cong.-I.), (*Amla—S.C.*) ; B. D. Soni (J.P.), (*Anjad*) ; J. K. Gupta (J.P.), (*Anuppur*) ; Ratandas Hardas (J.P.), (*Arang—S.C.*) ; Chimanlal Guljarilal (J.P.), (*Ashoknagar*) ; Narayan Singh Kesri (J.P.), (*Ashta—S.C.*) ; S. S. Lal (J.P.), (*Attair*) ; Udaysingh Pandya (J.P.), (*Badnagar*) ; Dr. Goverdhan Sharma (J.P.), (*Badnawar*) ; Bachchan Nayak (J.P.), (*Badwara*) ; Blasyus Ekka (Cong.-I), (*Bagicha—S.T.*) ; Kailashchandra Joshi (J.P.), (*Bagli*) ; T. C. Chaurasia (J.P.), (*Bahoriband*) ; Dr. Sudhanwasingh Netam (J.P.), (*Baihar—S.T.*) ; Jwala Prasad (J.P.), (*Baikunthpur*) ; Chintaram Masaram (J.P.), (*Bajag—S.T.*) ; Nandkishore Sharma (Cong.), (*Balaghat*) ; Mishrilal Khatri (Ind.), (*Balod*) ; V. M. Prasad (J.P.), (*Baloda Bazar*) ; Shivraj Singh (J.P.), (*Banda*) ; Supiayar Singh (J.P.), (*Bareli*) ; Bharatlal Bisen (Cong.), (*Barghat*) ; S. P. Chanpuria (J.P.), (*Bargi*) ; Ramesh Sharma (J.P.), (*Barwah*) ; Umraosingh Parwatsingh (J.P.), (*Barwani—S.T.*) ; Birendra Bahadur Singh Lalbahadur (Cong.-I.), (*Basna*) ; Jamuna Prasad Biharilal (J.P.), (*Basoda*).

L. P. Vaidya (Cong.), (*Bemetara*) ; G. S. Kaushal (J.P.), (*Berasia*) : Madhav Gopal Naseri (Ind.), (*Betul*) ; Patiram Tanaav (J.P.), (*Bhaisdehi—S.T.*) ; Dr. Nandlal Saroniya (J.P.), (*Bhander—S.C.*) ; Baliram Mahadev Kashyap (J.P.), (*Bhanpuri—S.T.*) ; Pyarelal Suklalsingh (J.P.), (*Bhanupratappur—S.T.*) ; J. P. Agarwal (Cong.-I), (*Bhatapara*) ; Kanhaiyalal Kosariya (Cong.), (*Bhatgaon—S.T.*) ; Dongarsingh Patel (J.P.), (*Bhikungoan—S.T.*) ; Dinkar Dange (J.P.), (*Bhilai*) ; Smt. Om Kumari Kushwah (J.P.), (*Bhind*) ; Parabchand Jain (J.P.), (*Bhojpur*) ; Dr. Hamid Qureshi (J.P.), (*Bhopal North*) ; Baboolal Gaur (J.P.), (*Bhopal South*) ; Dattatrayrao Madhaorao (J.P.) (*Biaora*) ; Bhangilal Saiyam (J.P.), (*Bichhia—S.T.*) ; Mahadeo Rana (J.P.), (*Bijapur—S.T.*) ; Mukund Sakharam Newalkar (Speaker), (*Bijawar*) ; B. R. Yadav (Cong.-I), (*Bilaspur*) ; Chitrakant Jaiswal (Cong.-I), (*Bilha*) ; Bhagirath Bilgainya (J.P.), (*Bina*) ; Balram Jugalsai (J.P.), (*Bindranawagarh—S.T.*) ; Sujansingh Patel (Cong.), (*Bohani*) ; Shaligram Shriwastav (J.P.), (*Budhni*) ; Shivkumar Singh Nawalsingh (Cong.-I), (*Burhanpur*).

Krishna Vallabh Gupta (J.P.), (*Chachaura*) ; Bisahudas Mahant (Cong.), (*Champa*) ; Raghunath Singh Kalyan Singh (J.P.), (*Chandla*) ; Bhawanilal Verma (Cong.-I.), (*Chandrapur*) ; Baijnathprasad Saxena (Cong.-I.), (*Chaurai*) ; Jagadamba Prasad Nigam (J.P.), (*Chhatarpur*) ; Vijaykumar Patni (Cong.), (*Chhindwara*) ; Lakhan Jaisingh (J.P.), (*Chitrakote—S.T.*) ; Ramnand Singh (J.P.), (*Chitrakut*); Manjhla Kumar (J.P.), (*Chowki—S.T.*) ; Arjun Singh (Cong.-I.), (*Churhat*) ; Gopiram (J.P.), (*Dabra*) ; P. N. Tandon (Cong.I.), (*Damoh*) ; Mandir Sha (J.P.), (*Damua—S.T.*) ; Sukaldhar Bhawani (J.P.), (*Dantewara—S.T.*) ; Shyamsunder Shyam (Cong.-I), (*Datia*) ; Dr. Parshuram Sahu (J.P.), (*Deori*) ; Jagannath Singh (J.P.), (*Deosar—S.T.*) ; Ram Khelawan Bhir (J.P.), (*Deotalab—S.C.*) ; Tatan Patodi (J.P.), (*Depalpur*) ; S K. Trimbarao (J.P.), (*Dewas*); Dharampal Singh Gupta (J.P.), (*Dhamdha*) ; P. R. Kushalrao Pawar (J.P.), (*Dhamtari*) ; Vikram Verma (J.P.), (*Dhar*) ; Chaneshram Rathia (Cong.-I.), (*Dharamjaigarh—S.T.*) ; Kiratsingh (Cong.-I.), (*Dharampuri—S.T.*) ; Ashwani Kamar Dubey (J.P.), (*Dharsiwa*) ; Malsingh Latu (J.P.), (*Dhulkot—S.T.*) ; Munshilal (J.P.), (*Dimni—S.C.*) ; Moti Singh Sandya (Ind.), (*Dindori—S.T.*) ; Jhumuklal Bhediya (Cong.-I.), (*Dondilohara—S.T.*) ; Vidhyabhusan Thakur (J.P.), (*Dongargaon*) ; Dr. Vinayak Meshram (J.P.), (*Dongargarh—S.C.*) ; Motilal Vora (Cong.-I.), (*Durg*).

Nagin Kocher (J.P.), (*Gadarwara*) ; Raghunandan (J.P.), (*Garoth*) ; Vasantrao Uike (Cong.), (*Ghansor—S.T.*) ; Gangaram Parmar (J.P.), (*Ghatiya—S.C.*) ; Someshwar Singh (J.P.), (*Ghauhani—S.T.*) ; J. S. Uike (J.P.), (*Ghora Dongri—S.T.*) ; Vishnudutta Tiwari (J.P.), (*Gird*) ; Bhure Lal Phirojia (J.P.), (*Gohad—S.C.*) ; Ram Khelawan Pandey (J.P.), (*Gopadbanas*) ; Sharaschandra Jharia (J.P.), (*Gotegaon—S.C.*) ; L. N. Sharma (J.P.), (*Gvindpura*) ; B. S. Gothi (J.P.), (*Gulana*) ; D. S. Saxena (J.P.), (*Guna*) ; Dnanaram (Cong.), (*Gunderdehi*) ; Chandramani (J.P.), (*Gurh*) ; Jagdish Gupta (J.P.), (*Gwalior*) ; Babulal Silarpuria (J.P.), (*Harda*) ; Surajmal (J.P.), (*Harsud—S.T.*) ; Tejsingh Karansingh (J.P.), (*Hatpipalia*) ; Ramkrishna Kusmariya (J.P.), (*Hatta*) ; Ramesh Chandra Bargale (J.P.), (*Hoshangabad*) ; Narayan Prasad Gupta (J.P.), (*Ichhawar*) ; Om Prakash Rawal (J.P.), (*Indore City I*) ; Y. D. Sharma (Cong.-I.), (*Indore City II*) ; Rajendra Dharkar (J.P.), (*Indore City III*) ; Shrivallabh Sharma (J.P.), (*Indore City IV*) ; Suresh Seth (Cong.-I), (*Indore City V*) ; Narmada Prasad Soni (J.P.), (*Itarsi*) ; D. C. Mishra, (Cong.-I), (*Jabalpur Cantt.*) ; Smt. Jaishri Banerji (J.P.), (*Jabalpur Central*) ; K. S. Sonkar (J.P.), (*Jabalpur East—S.C.*) ; Dr. L. K. Dubey (Cong.), (*Jabalpur West*) ; Virendra Pande (J.P.), (*Jagdalpur*) ; Ramnath Singh (J.P.), (*Jaisinghnagar—S.T.*) ; Sunderlal Brijlal (Cong.-I), (*Jamai*) ; K. S. Rathore (J.P.), (*Jaora*) ; Dr B. P. Gupta (J.P.), (*Jarhagaon*) : Sukhram Bhagat (J.P.), (*Jashpur—S.T.*) ; A. P. S. Yadav (J.P.), (*Jatara*) ; Virendrakumar Sakhalecha (J.P.), (*Jawar*) ; Bapusingh Damor (Cong.-I), (*Jhabua—S.T.*) ; Ajmer Singh (Cong.-I), (*Jobat—S.T.*) ; Subedar Singh (J.P.), (*Joura*).

H. S. Ramnath (J.P.), (*Kanker—S.T.*) ; Smt. Sushma Singh (J.P.), (*Karera*) ; Dhaniram Sahu (J.P.), (*Kasdol*) ; Bankim Joshi (J.P.), (*Kasrawad*) ; L. T. Narayan (J.P.), (*Katangi*) ; Bodhram Kanwar (Cong.-I.), (*Katghora*) ; Smt. Shashi Prabhadevi (Ind.), (*Kawardha*) ; Kum. Vimala Verma (Cong.-I.), (*Keolari*) ; Smt. Mangli Jhaduram (J.P.), (*Keskal—S.T.*) ; Joga Hadma (J.P.), (*Keslur—S.T.*) ; Purushottam Vipat (J.P.), (*Khachrod*) ; Manik Gupta (J.P.), (*Khairagarh*) ; Shankar Sao (Cong.), (*Khairalanjee*) ; Dr. Ramesh (J.P.), (*Khallari*) ; Vacant (*Khandwa*); Nathuram Ahirwar (J.P.), (*Khargapur—S.C.*); Dr. Navneet Mahajan (J.P.), (*Khargone*) ; Lakshmi

Prasad Patel (Cong.-I.), (*Kharsia*) ; Narmada Prasad G. Kinkar (J.P.),(*Khategaon*); Vasudeo Chandrakar(Cong.-I.), (*Khertha*) ; N. S. Pawar (J.P.), (*Khilchipur*) ; Prakash Yadav (J.P.), (*Khujji*) ; Ramprasad Ahirwar (J.P.), (*Khurai—S.C.*) ; Jhankarsingh Chandanlal (Cong.), (*Kirnapur*) ; Kamta Prasad (J.P.), (*Kolaras—S.C.*) ; Mankuram Sodi (Cong.-I.), (*Kondagaon—S.T.*) ; K. G. Kistaiya (J.P.), (*Konta—S.T.*) ; Mathura Prasad Dube (Cong.-I.), (*Kota*) ; Babulal Singh (J.P.), (*Kotma—S.T.*) ; Pratapsingh Baghel (Cong.-I.), (*Kukshi—S.T.*) ; Y. R. Meghavale (J.P.), (*Kurud*) ; Ramcharan Lal (J.P.), (*Kurwai—S.C.*) ; Ramashankar Singh (J.P.), (*Lahar*) ; Surendra Singh (Cong.-I.), (*Lailunga—S.T.*) ; Satyendra Singh Deepsingh Thakur (Cong.-I.), (*Lakhnadon—S.T.*); Yashwantrao Khogal (Cong.), (*Lanji*) ; Naresh Johri (J.P.), (*Lashkar East*) ; Shitala Sahay (J.P.), (*Lashkar West*) ; Phoolchand Jain (J.P.), (*Lormi*) ; Asan Ram (J.P.), (*Lundra—S.T.*).

Ramdayal (J.P.), (*Maharajpur—S.C.*) ; Yakub Rajwani (J.P.), (*Mahasamund*) ; Nathubhai Sawle (J.P.), (*Maheshwar—S.C.*) ; S. N. Chowdhary (J.P.), (*Mahidpur*) ; Ghanshyam Set Patidar (Cong.-I), (*Mahu*) ; Narayan Singh (J.P.), (*Maihar*) ; Gotia Trambakeshwar Prasad Dubey (Cong.), (*Majholi*) ; Jang Bahadur Singh (J.P.), (*Malehra*) ; Vedram (Cong.-I.), (*Malkharoda—S.C.*) ; Ramchandra Basir (J.P.), (*Manasa*) ; Shivbhanu Solanki (Cong.-I), (*Manawar*); Ramlal Chandrakar (J.P.), (*Mandirhasod*) ; Vijay Datta Jha (J.P.), (*Mandla*) ; Sunderlal Patwa (J.P.), (*Mandsaur*) ; Ram Singh (J.P.), (*Manendragarh—S.T.*) ; Lal Rukhamaniram Pratap Singh (Cong.), (*Mangawan*) ; Gophelal Kurre (J.P.), (*Maro—S.C.*) ; Bhamwar Singh Porte (Cong.-I.), (*Marwahi—S.T.*) ; Ramji Mahajan (Cong.-I.), (*Masod*) ; Bansilal Dhratalahre (Cong.-I.), (*Masturi—S.C.*) ; Achyutanand Mishra (Cong.-I.), (*Mauganj*) ; Rameshwardayal Dantre (J.P.), (*Mehgaon*) ; Maniram Barange (Ind.), (*Multai*) ; Chandra Mohan Rawat (J.P.), (*Mungaoli*) ; Rameshwar Prasad K. Vakil (J.P.), (*Mungeli—S.C.*) ; M. I. Indapurkar (J.P.), (*Murar*) ; Jabar Singh (J.P.), (*Murena*) ; Vibhash Chandra Banarjee (J.P.), (*Murwara*).

Nagendra Singh (J.P.), (*Nagod*) ; Ghanshyam Jaiswal (J.P.), (*Nainpur*) ; Gadruram Sori (J.P.), (*Narayanpur—S.T.*) ; Siddhumal Dallumal (J.P.), (*Narsingharh*) ; Surendrakumar Dhorelia (J.P.), (*Narsinhapur*) ; Liladhar (Cong.), (*Naryaoli—S.C.*) ; Kanhaiyalal Dungarval (J.P.), (*Neemuch*) ; Brijmohan Mishra (J.P.), (*Nepanagar*) ; Raghurajsingh Tomar (J.P.), (*Nimarkhedi*) ; Gauri Shankar Shukla (J.P.), (*Niwari*) ; Roop Singh (J.P.), (*Niwas—S.T.*) ; Narendrasingh Thakur (J.P.), (*Nohata*) ; Gyansingh (J.P.), (*Nowrozabad—S.T.*) ; Shivepratap Singh (J.P.), (*Pal—S.T.*) ; Phoolsingh Miree (Cong.-I.), (*Pallari—S.C.*) ; S. P. Sharma (Cong.), (*Pamgarh*) ; D. P. Pathak (Cong.), (*Panagar*) ; Sakharam D. Patel (J.P.), (*Pandhana—S.C.*) ; Madhavlal Dube (Cong.-I.), (*Pandhurna*) ; Lokendra Singh (J.P.), (*Panna*) ; Damodar Tulsiram (Cong.-I.), (*Parasia—S.C.*) ; Tejlal Tembhre (Cong.), (*Paraswada*) ; Kejuram Verma (Cong.), (*Patan**) ; Prithvisingh (Cong.), (*Patan†*) ; Rampukar Singh (Cong.-I.), (*Pathalgaon—S.T.*) ; Jiwanlal Kanchhadelal (J.P.), (*Patharia S.C.*) ; Umashankar Pathak (J.P.), (*Pawai*) ; Pratapsingh (J.P.), (*Petlawad—S.T.*) ; Kamal Singh Padhoria (J.P.), (*Pichhore*) ; Nar Narayan (J.P.), (*Pilkha*) ; Ramchandra Maheshwari (J.P.), (*Piparia*) ; Damodar Prasad (J.P.), (*Pohri*) ; Sahdeo Singh (J.P.), (*Premnagar—S.C.*) ; Hazari Singh (J.P (*Pushparajgarh—S.T.*).

D. S. Balbhadra Singh (Cong.-I.), (*Raghogarh*) ; V war Prasad (J.P.), (*Raigaon—S.C.*) ; Ramkumar Ag (Cong.), (*Raigarh*) ; Ramesh Warlyarni (J.P.), (*R Rural*) ; Smt. Rajni Upasane (J.P.), (*Raipur Town*) Jamnalal Gupta (J.P.), (*Rajgarh*) ; Pawan D. Sukh dhar (J.P.), (*Rajim*) ; Thakur Darbar Singh (J.P.), (*R nandgaon*) ; Bersingh Devsingh (J.P.), (*Rajpur—S.T.*) Nankiram Kanwar Wakil (J.P.), (*Rampur—S.T.*) ; Prabhakar Singh (J.P.), (*Rampur Beghelan*) ; Surajmal Jain (J.P.), (*Ratlam Rural*) ; Himmat Kothari (J.P.), (*Ratlam Town*) Mahadeo Prasad Hazari (Cong.-I.), (*Rehli*) ; Premlal Mishra (J.P.), (*Rewa*) ; Rasal Singh (J.P.), (*Ron*) ; Shridhar Hardenia (J.P.), (*Sabalgarh*) ; Shiv Kumar Srivast (Cong.-I), (*Sagar*) ; Kamji (J.P.), (*Sailana—S.T.*) ; Pra Kumar Choube (J.P.), (*Saja*) ; Raja Surendra Baha Singh (Cong.-I), (*Sakti*) ; Amin (J.P.), (*Samri—S.T.*) Devilal Raikaver (J.P.), (*Sankach—S.C.*) ; Dr. G Shankar Shejwar (J.P.), (*Sanchi—S.C.*) ; Mohan L Chaudhari (Cong.I), (*Saraipali*) ; Hulasram Ma (Cong.-I), (*Sarangarh—S.C.*) ; Amarsingh Kothar (Ind (*Sarangpur—S.C.*) ; Moolchand Patel (Cong.-I), (*S pur)—S.T.*) ; Kum. Kamladevi Nareshchandra S (Cong.-I), (*Saria*) ; Arun Singh (Cong.), (*Satna*) ; Rewr N. Chore (Cong.-I), (*Sausar*) ; Arjunsingh Dharu (J.P (*Sawer—S.C.*).

Smt. Sabita Bajpai (J.P.), (*Sehore*) ; Raoji Bhai Kalji (J.P.), (*Sendhwa—S.T.*) ; Smt. Prabha Bhargava (Cong (*Seoni*) ; Harilal Raghuwanshi (Cong.-I), (*Seonimalwa*) ; Tulsiram Dangi (J.P.), (*Sewade*) ; Harlal Shakyawar (J.P. (*Shadora—S.C.*) ; Dhairyashilrao Keshav Rao Deshmukh (J.P.), (*Shahpuri*) ; Anoop Singh Maravi (J.P.), (*Sh —S.T.*) ; Shashikant Shendurniker (J.P.)., (*Shajpur*) ; Girishchand R. Sahai (J.P.), (*Shamshabad*) ; Gulab Singh (J.P.), (*Sheopur*) ; Mahavir Prasad Jain (J.P.), (*Shivpuri*) ; Krishnapal Singh (Cong.-I), (*Shyampur*) ; Dr. Shail Kumar Sharma (J.P.), (*Shujalpur*) ; Indrajit Kumar (Cong.-I), (*Sidhi*) ; Madhav Singh Dhruv (J.P.), (*Sihawa—S.T.*) ; Dhanyakumar Jain (J.P.), (*Sihora*) ; Ram Charitra (J.P (*Singrauli—S.C.*) ; Radheshyam Shukla (Cong.-I), (*Sipat*) ; Sita Prasad Sharma (J.P.), (*Sirmaur*) ; Sharif Master (J.P.), (*Sironj*) ; Pt. Basantilal Sharma (J.P.), (*Sitamau*) ; Sukhiram (Cong.-I), (*Sitapur—S.T.*) ; Jahar Singh Sharma (J.P.), (*Sumawali*) ; Rewtiraman Mishra (J.P. (*Surajpur*) ; Lakshmi Narayan Yadav (J.P.), (*Surkhi*) ; Haribhau Joshi (J.P.), (*Susner*) ; Champalal Arya (J.P (*Suvasara—S.C.*).

Manharlal Pande (J.P.), (*Takhatpur*) ; Bishal Singh (J.P.), (*Tanakhar—S.T.*) ; Nandkumar Sai (J.P.), (*Tapkara—S.T.*) ; Nagulal Malviya (J.P.), (*Tarana—S.C.*) ; Shrinivas Tiwari (Cong.-I.), (*Teonthar*) ; Mannaji (J.P. (*Thandla—S.T.*) ; Maganlal Goel (J.P.), (*Ti* Manoharlal Hazarilal (J.P.), (*Timarni—S.C.*) ; Go singh (J.P.), (*Udaipura*) ; Babulal Jain (J.P.), (*U North*) ; Govindrao Vishwanath Naik (J.P.), (*Ujjain S* Nripendra Singh (J.P.), (*Umaria*) ; Narsinghdas Goy (J.P.), (*Vidisha*) ; Ajit Kumar Dixit (J.P.), (*Vijaypur*) Laxmichand Baihal (J.P.), (*V* [illegible] singh Bais (Cong.-I), (*Virendranagar*) ; Dattatraya Mad Rao (J.P.), (*Vyarara*) ; Baijnath Singh (J.P.), (*Vy* K. D. Deshmukh (J.P.), (*Waraseoni*) ; B. A. Gregory (I (*Nominated*).

MAHARASHTRA LEGISLATIVE ASSEMBLY

Speaker : Shivraj Patil.

Dy. Speaker : Gajananrao Garud.

Secretary : G. S. Nande.

Seats : 289 (including one Anglo-Indian nominee) ; *Electorate* : 30,953,818 ; *Votes Polled* : 20,964,856.

Party Position : Purogami Lokshahi Aghadi : 17 Janata Party : 101 (including two Muslim dates) ; Maharashtra Purogami Vidhan Mandal (including five independents) ; Peasants and W Party : 13 ; Communist Party of India (Marxists) : 9 ; R publican Party of India : 5 (Kamble 3 ; Khobragade 2) ; Maharashtra Samajwadi Congress : 2 ; and Lokshahi Congress Group : 9 ; Congress (I) : 51 ; Congress : 29 ; Forward Bloc : 14 ; Republican Party of India (Gawai) : 2 ; Nagvidarbha Andolan Samiti : 2 ; Communist Party of India : 1 ; Independents : 8 ; Nominated : 1. Vacant ; 1. *Women members* : 7.

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* Durg Dist. † Jabalpur Dist.

W. B. Bhokre (Cong.-I), (*Achalpur*) ; V. S. Tighare (Cong.-I), (*Adyar*) ; M. D. Shelke (Ind.), (*Ahmednagar–North*) ; Dr. K. Saptarshi (P.L.A.), (*Ahmednagar–South*) ; Nanasaheb Deshmukh (P.L.A.), (*Ahmedpur*) ; Imamsaheb Patel (P.L.A.), (*Akkalkot*) ; Md. Azhar Hussain Khan (Cong.-I), (*Akola*) ; S. R. Gangane (Cong.-I), (*Akot*) ; S. F. Jadhav (P.L.A.), (*Akrani—S.T.*) ; Datta Patil (P.L.A.), (*Alibag*) ; G. W. Patil (P.L.A.), (*Amalner*) ; B. S. Solanke (P.L.A.), (*Ambad*) ; J. S. Patil (P.L.A.), (*Ambarnath*) ; B. D. Kale (P.L.A.), (*Ambegaon*) ; Ramesh Sheth (P.L.A.), (*Amboli*) ; M. S. Shivankar (P.L.A.), (*Amgaon*) ; S. C. Bhuyar (F.B.), (*Amravati*) ; N. B. Samant (P.L.A.), (*Andheri*) ; Vacant (*Armori—S.T.*) ; S. G. Chudiwala (F.B.), (*Arvi*) ; L. V. Jadhav (P.L.A.), (*Ashti*) ; R. E. Gawande (P.L.A.), (*Aurangabad–East*) ; Abdul Azim (Cong.-I), (*Aurangabad–West*) ; K. S. Sonavane (P.L.A.), (*Ausa*).

S. L. Kolkar (Cong.-I), (*Badnapur*) ; M. B. Yadav (Cong.-I), (*Badnera*) ; L. T. Pawar (Cong.-I), (*Baglan—S.T.*) ; P. N. Gujrathi (Cong.-I), (*Balapur*) ; S. S. Varde (P.L.A.), (*Bandra*) ; S. G. Pawar (P.L.A.), (*Baramati*) ; K. N. Deshmukh (Cong.-I), (*Barshi*) ; P. R. Deshmukh (P.L.A.), (*Basmat*) ; P. R. Chaudhari (P.L.A.), (*Bassein*) ; G. P. Bhoir (P.L.A.), (*Belapur*) ; N. Y. Shinde (P.L.A.), (*Bhadravati*) ; V. S. Dube (Cong.-I), (*Bhandara*) ; P. P. Sanzgiri (P.L.A.), (*Bhandup*) ; Bhai Vaidya (P.L.A.), (*Bhavani Peth*) ; S. A. Chavan (Cong.), (*Bhilawadi–Wangi*) ; A. L. Navle (P.L.A.), (*Bhir*) ; P. D. Tavre (Ind.), (*Bhiwandi*) ; S. B. Chavan (P.L.A.), (*Bhokar*) ; S. R. Jedhe (P.L.A.), (*Bhor*) ; D. N. Bhole (Cong.), (*Bhusawal*) ; G. M. Patne (P.L.A.), (*Biloli*) ; V. R. Patil (P.L.A.), (*Bokardan*) ; L. T. Sawant (P.L.A), (*Bopodi*) ; M. R. Apotikar (P.L.A.), (*Borgaon Manju*) ; R. D. Naik (P.L.A.), (*Borivli*) ; B. S. Bhandarkar (Cong.-I), (*Brahmapuri*) ; S. B. Patil (P.L.A.), (*Buldana*) ; D. D. Chavan (Cong.), (*Chalisgaon—S.C.*) ; V. B. Patil (Ind.), (*Chandgad*) ; N. C. Pugaliya (Cong.-I), (*Chandrapur*) ; S. R. Sawalakhe (Cong.-I), (*Chandur*) ; K. D. Davkar (P.L.A.), (*Chandwad*) ; B. N. Adaskar (P.L.A.), (*Chausala*) ; Hashu P. Advani (P.L.A.), (*Chembur*) ; J. D. Bondre (Cong.-I),* (*Chikhli*) ; A. S. Sonawane (P.L.A.), (*Chimur*) ; S. T. Kaviskar (P.L.A.), (*Chinchpokli*) ; R. K. Shinde (P.L.A.), (*Chiplun*) ; Madhavrao K. Choudhari (P.L.A.), (*Chopda*) ; Ranjit Bhanu (P.L.A.), (*Colaba*).

B. W. Hire (Cong.-I), (*Dabhadi*) ; Dr. H. S. Gupte (P.L.A.), (*Dadar*) ; S. M. Chavan (P.L.A.), (*Dahanu—S.T.*) ; G. D. Sakpal (P.L.A.), (*Dapoli*) ; Dr. S. K. Bobde (F.B.), (*Daryapur*) ; H. R. Mandhana (F.B.), (*Darwha*) ; V. S. Satam (P.L.A.), (*Deogad*) ; B. M. Ahire (P.L.A.), (*Deolali — S.C.*) ; Satyendra More (P.L.A.), (*Dharavi—S.C.*) ; D. B. Takvane (P.L.A.), (*Dhond*) ; K. M. Khopde (Cong.-I), (*Dhule*) ; N. N. Yambador (F.B.), (*Digras*) ; B. D. Gaikwad (Cong.-I), (*Dindori—S.T.*) ; Smt. Pratibha D. Patil (Cong.-I), (*Edlabad*) ; M. D. Patil (P.L.A.), (*Erandol*) ; D. T. Madavi (Cong.-I), (*Gadchiroli—S.T.*) ; S. S. Ghali (Cong.-I), (*Gadhinglaj*) ; D. H. Gaikwad (P.L.A.), (*Gangakhed—S.C.*) ; L. E. Manal (P.L.A.), (*Gangapur*) ; S. A. Pandid (P.L.A.), (*Georai*) ; J. G. Parikh (P.L.A.), (*Ghatkopar*) ; Smt. Rajkumari G. Bajpai (Cong.-I), (*Gondia*) ; G. H. Nagpure (Cong. I), (*Goregaon*) ; P. B. Samat (P.L.A.), (*Goregaon*) ; Dr. S. D. Natu (P.L.A.), (*Guhagar*) ; N. M. Pawar (P.L.A.), (*Hadgaon*) ; S. T. Phuge (P.L.A.), (*Haveli*) ; T. P. Kamble (P.L.A.), (*Her—S.C.*) ; D. Z. Kolhe (Cong.-I), (*Hinganghat*) ; D. Y. Galande (P.L.A.), (*Hingoli*) ; S. P Patil (P.L.A.), (*Ichalkaranji*) ; B. S. Wagh (Cong.-I), (*Igatpuri—S.T.*) ; S. B. Patil (Cong.), (*Indapur*).

T. P. Dhokne (P.L.A.), (*Jalamb*) ; Iswarlal S. Jain (Cong.-I), (*Jalgaon*) ; K. P. Bhise (Cong.-I), (*Jalna*) ; G. R. Garud (Ind.), (*Jamner*) ; B. D. Bhilare (P.L.A.), (*Jaoli*) ; J. I. Sohani (Cong.), (*Jath—S.C.*) ; B. L. Kurhada (P.L.A.), (*Jawhar—S.T.*) ; G. N. Rathi (P.L.A.), (*Jintur*) ; Krishnarao Mundhe (P.L.A.), (*Junnar*) ; V. J. Ghatge (Ind.), (*Kagal*) ; B. N. Satpute (P.L.A.), (*Kaij—S.C.*) ; K. E. Ghodke (P.L.A.), (*Kalamb—S.C.*) ; V. C. Mhaske (P.L.A.), (*Kalamnuri*) ; B. N. Gaikwad (F.B.), (*Kalmeshwar*) ; A. T. Pawar (Cong.), (*Kalvan—S.T.*) ; R. G. Kapse (P.L.A.), (*Kalyan*) ; T. R. L. Bhosle (Cong.-I), (*Kamptee*) ; G. M. Kurude (P.L.A.), (*Kandhar*) ; H. V. Upadhyaya (P.L.A.), (*Kandivli*) ; Dr. T. S. Patil (P.L.A.), (*Kannad*) ; K. P. Pawar (P.L.A.), (*Karad*) ; Y. J. Mohite (Cong.), (*Karad South*) ; A. K. Deshmukh (F.B.), (*Karanja*) ; B. D. Kamble (RPI—Gawai), (*Karjat—S.C.*) ; N. M. Jagtap (P.L.A.), (*Karmala*) ; R. B. Patil (P.L.A.), (*Karvir*) ; A. D. Lele (P.L.A.), (*Kasbapeth*) ; M. G. Mankar (F.B.), (*Katol*) ; V. S. Patil (Cong.), (*Kavthe Mahankal*) ; L. M. Masram (P.L.A.), (*Kelapur—S.T.*) ; B. L. Patil (P.L.A.), (*Khalapur*) ; P. P. Phundkar (P.L.A.), (*Khamgaon*) ; S. G. Salunke (Cong.), (*Khanapur*) ; K. S. Patil (Cong.), (*Khatau*) ; A. G. Bhosle (P.L.A.), (*Khed*) ; R. J. Kandke (P.L.A.), (*Khed–Alandi*) ; R. S. Nayak (P.L.A.), (*Kherwadi*) ; Khaleeq Ahmed Khan (P.L.A.), (*Khetwadi*) ; U. B. Rathod (Cong.), (*Kinwat*) ; R. R. Sabnis (P.L.A.), (*Kolhapur*) ; S. G. Kolhe (Cong.), (*Kopargaon*) ; S. C. Jagtap (P.L.A.), (*Koregaon*) ; Samsul Huq Khan (P.L.A.), (*Kurla*) ; R. C. Patil (Cong.-I), (*Kusumba*).

H. N. Bhaiya (Cong.-I), (*Lakhandur*) ; S. V. Patil (Cong.), (*Latur*) ; K. K. Parbat (P.L.A.), (*Madha*) ; D. V. Purohit (P.L.A.), (*Mahad*) ; F. M. Pinto (P.L.A.), (*Mahim*) ; B. A. Desai (P.L.A.), (*Malabar Hill*) ; Smt. Kamal V. Desai (P.L.A.), (*Malad*) ; Mohd U. Nihal Ahmed (P.L.A.), (*Malegaon*) ; A. V. Wankhed (P.L.A.), (*Malkapur*) ; S. B. Patil (P.L.A.), (*Malshiras*) ; Dr. Y. B. Dalvi (P.L.A.), (*Malwan*) ; V. T. Sonavane (P.L.A), (*Man—S.C.*) ; N. S. Kamble (R.P.I.–Gawai), (*Mangalvedha—S.C.*) ; R. V. Mahalunge (P.L.A.), (*Mangaon*) ; A. K. Patil (P.L.A.), (*Mangrulpir*) ; S. A. Solankhe (P.L.A.), (*Manjlegaon*) ; S. J. Kohli (P.L.A.), (*Matunga*) ; K. D. Bhegde (P.L.A.), (*Maval*) ; D. G. Kamat (P.L.A.), (*Mazgaon*) ; V. K. Shinde (P.L.A.), (*Medshi*) ; S. K. Saoji (Cong.-I), (*Mehekar*) ; R. M. Patel (Cong.-I), (*Melghat—S.T.*) ; M. G. Shinde (Cong.), (*Miraj*) ; S. S. Patil (Cong.), (*Mohol*) ; M. S. Ande (Cong.-I), (*Morshi*) ; C. G. Maski (P.L.A.), (*Mudkhed*) ; M. R. Ghate (P.L.A.), (*Mukhed—S.C.*) ; N. R. Mate (P.L.A.), (*Mulshi*) ; P. R. Patwardhan (P.L.A.), (*Mulund*) ; M. P. Parikh (P.L.A.), (*Mumbadevi*) ; Shantaram G. Gholap (P.L.A), (*Murbad*) ; D. M. Thakre (P.L.A.), (*Murtijapur*) ; Y. S. Bhangre (P.L.A.), (*Nagar Akola—S.T.*) ; Dr. Mohd. I. A. Jamkhanawala (P.L.A.), (*Nagpada*) ; B. S. Surve (P.L.A.), (*Nagpur Central*) ; Banwarilal B. Purohit (F.B.), (*Nagpur East*) ; S. J. Dongre (P.L.A.), (*Nagpur North—S.C.*) ; G. M. Wanjari (Cong.-I), (*Nagpur South*) ; B. G. Mulak (P.L.A.), (*Nagpur West*) ; S. K. Sawant (P.L.A.), (*Naigaon—S.C.*) ; N. Bismilla Khan (P.L.A.), (*Nanded*) ; K. C. Nahar (Ind.), (*Nandgaon*) ; R. P. Valvi (Cong.-I), (*Nandurbar—S.T.*) ; V. G. Upadhya (P.L.A.), (*Nasik*) ; Z. S. Vasave (Cong.-I), (*Navapur—S.T.*) ; L. H. Ibrat Hussain (P.L.A.), (*Nehrunagar*) ; S. B. Patil (Cong.), (*Nilanga*) ; V. P. Patil (P.L.A.), (*Niphad*).

B. S. Chalukya (Cong.), (*Omerga*) ; Smt. Jayawanti N. Mehta (P.L.A.), (*Opera House*) ; Dr. P. B. Patil (P.L.A.), (*Osmanabad*) ; O. N. Wagh (P.L.A.), (*Pachora*) ; B. A. Thorat (P.L.A.), (*Paithan*) ; A. K. K. Shingade (P.L.A.), (*Palhar—S.T.*) ; A. K. Patil (P.L.A.), (*Pandharpur*) ;

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* Election held void.

Y. E. Patil (Cong.), (*Panhala*); D. N. Patil (P.L.A.), (*Panvel*); V. A. Deshmukh (P.L.A.), (*Parande*); R. B. Jamkar (P.L.A.), (*Parbhani*); V. R. Desai (P.L.A.), (*Parel*); S. D. Kale (P.L.A.), (*Parner*); U. L. Patil (P.L.A.), (*Parola*); R. V. Borade (Cong.-I), (*Partur*); Subhash Sarvagoud (P.L.A.), (*Parvati—S.C.*); D. S. Desai (P.L.A.), (*Patan*); B. D. Dhakne (P.L.A.), (*Pathardi*); S. G. Nakhate (P.L.A.), (*Pathri*); A. T. Patil (Cong.), (*Pen*); V. M. Naik Nimbalkar (P.L.A.), (*Phaltan*); Smt. Prabha Rao (Cong.-I), (*Pulgaon*); V. B. Tupe (P.L.A.), (*Pune Cantt.*); Dada Jadhavrao (P.L.A.), (*Purander*); S. R. Naik (Cong.), (*Pusad*); D. B. Jadhav (Cong.), (*Radhanagri*); K. L. Pawar (P.L.A.), (*Rahuri*); L. R. Hatankar (P.L.A.), (*Rajapur*); B. J. Musale (N.A.S.), (*Rajura*); S. B. Dhurve (F.B.), (*Ralegaon—S.T.*); G. F. Mahajan (Cong.-I), (*Ramtek*); Smt. Kusum R. Abhyankar (P.L.A.), (*Ratnagiri*); M. D. Choudhari (Cong.), (*Raver*); R. V. Mudhe (P.L.A.), (*Ronepur*).

M. D. Bedarkar (Cong.-I), (*Sakoli*); S. B. Malusare (Cong.-I), (*Sakri—S.T.*); B. S. Thorat (Cong.), (*Sangamner*); V. B. Patil (Cong.), (*Sangli*); Jagannathrao Jadhav (P.L.A.), (*Sangmeshwar*); G. A. Deshmukh (P.L.A.), (*Sangola*); S. S. Bondre (P.L.A.), (*Sangrul*); S. R. Sinha (P.L.A.), (*Santacruz*); D. B. Bandekar (Cong.-I), (*Saoli*); R. C. Naik (F.B.), (*Saonar*); A. S. Raje Bhosle (P.L.A.), (*Satara*); J. S. Mathakar (P.L.A.), (*Sawantwadi*); J. J. Rawal (P.L.A.), (*Shahada*); K. R. Telam (P.L.A.), (*Shahpur*—S.T.); U. N. Gaikwad (Cong.), (*Shahuwadi*); V. B. Langhe (C.P.I.), (*Shevgaon*); C. B. Ghogre (P.L.A.), (*Shirdi*); S. B. Deshmukh (Ind.), (*Shirola*); P. M. Pat (P.L.A.), (*Shirpur*); Smt. Shanti N. Naik (P.L.A.), (*Shivaj Nagar*); D. P. Kamble (P.L.A.), (*Shivdi*); N. N. A (P.L.A.), (*Solapur City North*); B. L. Rone (P.L.A.), (*Solapur City South*); S. S. Shinde (P.L.A.), (*Solapur North*)—*S.C.*); A. N. Deokate (Cong.-I), (*Solapur South*); D. D. Padvi (P.L.A.), (*Taloda–S.T.*); D. K. Patil (Con (*Tasgaon*); C. R. Thakur (Cong.-I), (*Teosa*); G. M. K (P.L.A.), (*Thane*); Laxminarayan G. Wasnik (Cong.-I (*Tirora–S.C.*); S. Balakrishnan (P.L.A.), (*Trombay*); Manikrao B. Khaple (P.L.A.), (*Tuljapur*); S. N. Karemor (F.B.), (*Tumsar*); B. K. Jadhav (Cong.), (*Udgir*); S. K Harchandani (P.L.A.), (*Ulhasnagar*); Abdulkader Chorwadwala (P.L.A.), (*Umarkhadi*); A. A. Deosk (P.L.A.), (*Umerkhed*); P. M. Dekate (Cong.-I), (*Umrer*) N. S. Mane (P.L.A.), (*Vadgaon–S.C.*); U. K. Patwari (Bhalerao) (P.L.A.), (*Vaijapur*); P. A. Kinlekar (P.L.A. (*Vengurla*); Pranlal Vora (P.L.A.), (*Vile Parle*); S. I Wani (P.L.A.), (*Wada–S.T.*); P. B. Bhosle (P.L.A. (*Wai*); B. B. Sable (F.B.), (*Walgaon*); V. B. Shinde (Cong.), (*Walva*); B. H. Pangate (Cong.–I.), (*Wani*) P. B. Shende (Cong.–I), (*Wardha*); B. N. War (Cong.–I), (*Washim–S.C.*); P. K. Kurne (P.L.A. (*Worli*); Smt. Sindhu P. Choudhari (P.L.A.), (*Yaval*) J. D. Patil (Ind.), (*Yeola*); J. B. Dhote (F.B.), (*Yavatmal*); D. L. Amore (*Anglo-Indian Nominee*).

MAHARASHTRA LEGISLATIVE COUNCIL

Chairman : R. S. Gavai; *Dy. Chairman* : A. G. Pawar; *Secretary* : G. S. Nande.

Strength : 78. Party position : Purogami Lokshahi Aghadi 40 (Maharashtra Purogami Vidhimandal Paksha 14, Janata Party 13, Maharashtra Samajwadi Congress 4, Peasants and Workers Party 2, R.P.I. (Kamble Group) 1 and Independents 6). Congress Legislature Party 19, Congress (I) Legislature Party 10, Forward Bloc 1, R.P.I. (Gavai Group) 1, Independent 1, Vacant 6.

Local Authorities' Constituency (22) : E. B. Nimbalkar (P.L.A.), (*Ahmednagar*); R. B. Lingade (Cong.-I), (*Akola and Buldhana*); A. K. Deshmukh (Cong.-I), (*Amravati*); B. J. Kale (Cong.-I), (*Aurangabad*); Chedilal Gupta (P.L.A.), (*Bhandara*); V. N. Bhruguwar (Cong.), (*Chanda & Rajura*); P. B. Choudhari (Cong.-I), (*Dhulia*); R. A. Patil (J.P.), (*Gr. Bombay*); Manohar Joshi (S.S.), (*Gr. Bombay*); D. P. Patil (Cong.), (*Jalgaon*); D. N. Kamble (Cong.), (*Kolhapur*); Dr. Kaka Patil (Cong.), (*Kulaba*); Sudhakar Naik (Cong.), (*Nagpur*); Pandit D. Patil (Cong.), (*Nasik*); S. S. Kadam (P.L.A.), (*Parbhani and Nanded*); L. S. Deshmukh (Cong.), (*Osmanabad and Bhir*); Vishwanath B. Patil (Cong.-I), (*Pune*); B. A. Sawant (Ind.), (*Ratnagiri*); S. Farooq Pasha S. Makdoom Pasha (Cong.), (*Sangli-cum-Satara*); Smt. Prabhavati Zadbuke (P.L.A.), (*Sholapur*); S. D. Baswant (P.L.A.), (*Thane*); D. A. Choudhari Patil (Cong.), (*Wardha and Yeotmal*).

Elected by the Legislative Assembly (30) : Ramrao Adik (Cong.-I); Smt. Qamar N. Ahmed (P.L.A.); R. S. Badal (Cong.); P. G. Bhanarkar (P.L.A.); B. A. Chavan (P.L.A.); Jawaharlal Darda (Cong.-I); B. N. Deshmukh (P.L.A.); Shankarro Deshmukh (P.L.A.); Kamlaprasad Dube (F.B.); R. S. Gavai (R.P.I. Gavai) R. J. Gharphalkar (Cong.); V. C. Gupta (P.L.A.); App saheb R. Jadhav (P.L.A.); V. N. Jadhav (Cong.); V. B. Jagtap (P.L.A.); A. S. Kasture (P.L.A.); Smt. Amtul Latif Kazi (Cong.); Ganpati Koli (P.L.A.); Datta Meg (P.L.A.); Ram Meghe (Cong.); M. P. Meher (P.L.A. N. G. Nande (P.L.A.); Smt. Mangala Parikh (P.L.A.); B. K. Patil (P.L.A.); Govindrao B. Patil (Cong.); A. Patil (P.L.A.); P. B. Salunkhe (Cong.); Nasikrao Tirp (Cong.-I); R. V. Tripathi (Cong.); N. V. Ugale (P.L.A

Teachers' Constituency (7) : Motiram Choud (P.L.A.), (*Bombay Division*); D. B. Sule (P.L.A.), (*B Division*); D. K. Deshmukh (P.L.A.), (*M T. N. Matade (P.L.A.), (*Pune*); N. D. Patil (P.L.A.), (*Pune*); Dattatraya E. Lanke (P.L.A.), (*Vidarbha*); G. R. Vaidya (P.L.A.), (*Vidarbha*).

Graduates' Constituency (7) : Madhu D (P.L.A.), (*Greater Bombay*); Prof. G. B. Kanitkar (P.L.A.), (*Greater Bombay*); G. P. Pradhan (P.L.A.), (*Maharashtra*) Smt. Kumud Rangnekar (P.L.A.), (*Maharashtra*), R. F. Choudhari (P.L.A.), (*Vidarbha*); G. K. Phadna (P.L.A.), (*Vidarbha*); Smt. Pramila Tople (P.L.A (*Vidarbha*).

Nominated (12): D. M. Bhosle (P.L.A.); V. K. Chavan Patil (Cong.-I); Sahebrao Deshmukh (Baradkar) (Cong.-I Arun Donde (Cong.); Mohanlal Golecha (P.L.A.); G. S Mukhare (P.L.A.); P. N. Rajabhoj (P.L.A.); Smt. Pramila Yagnik (Cong.); Vacant : 4.

MANIPUR LEGISLATIVE ASSEMBLY

Speaker : Dr. Chandramani Singh.

Dy. Speaker : Joy Singh.

An estimate of party position : Janata Party : 55; Communist Party of India : 4; Cong.-I : 1; Women Member : Nil.

Ashraf Ali (J.P.), (*Andro*); Kh. Rath Singh (J.P.), (*Bishenpur*); H. T. Thungam (J.P.), (*Chandel—S.T.*); Somi A. Shimray (J.P.), (*Chingai—S.T.*); H. Thangjou (J.P.), (*Churachandpur—S.T.*); N. Chaob Singh (J.P.), (*Heingang*); Moirangthem Ibotombi Singh (J.P.

(*Heirok*) ; Holkhomang (J.P.), (*Henglep—S.T.*) ; Manibam Kunjo Singh (J.P.), (*Hiyanglam*) ; Sinam Bijoy Singh (J.P.), (*Jiribam*) ; Kshetri Irabot Singh (C.P.I.), (*Kakching*) ; Kishore Thapa (J.P.), (*Kangpokpi—S.T.*), K. S. Bonjamen Banee (J.P.), (*Karong—S.T.*) ; Mohd. Jalaluddin (J.P.), (*Keirao*) ; R. K. Ranbir Singh (J.P.), (*Keishamthong*) ; Th. Achouba Singh (C.P.I.), (*Khangabok*) ; M. Hera Singh (J.P.), (*Khundrakpam*) ; K. Borthakur Sharma (J.P.), (*Khurai*) ; Heigrujam Thoithok Singh (J.P.), (*Konthougam*) ; Abdul Wahid (J.P.), (*Kshetrigao*) ; W. Komol Singh (J.P.), (*Kumbi*) ; Ph. Parijat Singh (C.P.I.), (*Lamlai*) ; Kh. Jugeshwar Singh (C.P.I.), (*Lamshang*) ; Md. Alimuddin (J.P.), (*Lilong*) ; Okram Joy Singh (J.P.), (*Langthabal*) ; Kh. Thekho (J.P.), (*Mao—S.T.*) ; Abdul Latif (J.P.), (*Mayang Imphal*) ; K. Shyam Singh (J.P.), (*Moirang*) ; Th. Chaoba Singh (J.P.), (*Nambol*) ; T. Sanaojaaba Singh (J.P.), (*Naoriya Pakhanglkpa*) ; Jangamlung (J.P.), (*Nungba—S.T.*) ; Y. Yaima Singh (J.P.), (*Oinam*) ; Dr. Leishangthem Chandramani Singh (J.P.), (*Patsoi*) ; Rishang Keishing (Cong.-I), (*Phungyar — S.T.*) ; Salam Tombi Singh (J.P.), (*Sagolband*) ; Ngulkhohao (J.P.), (*Saikot—S.T.*) ; Shonkhothang Ashon (J.P.), (*Saikul—S.T.*) ; Zampu Kipgen (J.P.), (*Saitu—S.T.*) ; Kh. Chaoba (J.P.), (*Sekmai — S.C.*) ; T. Gougin (J.P.), (*Singhat—S.T.*) ; Sanasam Biramani Singh (J.P.), (*Singhjamei*) ; Khaidem Nimaichand Singh (J.P.), (*Sugnu*) ; S. Adani (J.P.), (*Tadubi—S.T.*) ; N. Paoheu (J.P.), (*Tamei—S.T.*) ; T. P. Kiulengpau (J.P.), (*Tamenglong—S.T.*) ; L. Rongman (J.P.), (*Tengoupal—S.T.*) ; M. Gouramani Singh (Cong.-I.), (*Thamgmeiband*) ; S. Jayantakumar Singh (J.P.), (*Thanga*) ; N. Gouzagin (J.P.), (*Thanlon — S.T.*) ; H. Shyama Singh (J.P.), (*Thongju*) ; Koijam Mangi Singh (J.P.), (*Thoubal*) ; Ngurdinglien (J.P.), (*Tipaimukh — S.T.*) ; Y. Shaiza (J.P.), (*Ukhurul — S.T.*) ; M. Meghachandra Singh (Cong.-I.), (*Uripok*) ; Habibur Rehman (J.P.), (*Wabagai*) ; S. Ibomcha Singh (J.P.), (*Wanjing Tentha*) ; W. Nipamacha Singh (J.P.), (*Wangoi*) ; Md. Chaoba (J.P.), (*Wangkhem*) ; Kh. Pishak Singh (J.P.), (*Wankhei*) ; Rajakumar Dorendra Singh (Cong.-I.), (*Yaiskul*).

MEGHALAYA LEGISLATIVE ASSEMBLY

Speaker : Winstone Syiemiong ; *Dy. Speaker :* Beninstand G. Momin.

Seats : 60. *Electorate :* 585,023 ; *Votes polled :* 393,521 ; *Party Position :* All Party Hill Leaders' Conference 19 ; Congress 19 ; Hill State People's Democratic Party 14 ; Public Demands Implementation Convention 2 ; Jaintia National Union : 1 ; Independent : 5 ; Woman member : 1.

Bhadreswar Koch (Cong.), (*Ampatigiri*) ; W. A. Sangma (Cong.), (*Baghmara*) ; Grohonsing Marak (Ind.), (*Bajengdoba*) ; Jackman Marak (APHLC), (*Chokpot*) ; Bronson W. Momin (APHLC), (*Dadenggiri*) ; Armison Marak (APHLC), (*Dalamgiri*) ; Mukul Das (Ind.), (*Dalu*) ; Jungai Khonjoh (Cong.), (*Dienglieng*) ; P. Ripple Kyndiah (APHLC), (*Jaiaw*) ; Snomick Kalwing (Cong.), (*Jirang*) ; Tylli Kyndiah (APHLC), (*Jowai*) ; Prithington Sangma (Cong.), (*Kharkutta*) ; Alfrien Marak (APHLC), (*Kherapara*) ; Bhaskar Choudhury (Cong.), (*Laban*) ; Peter Garnett Marbaniang (Cong.), (*Laitumkhrah*) ; Bakstarwell Wanniang (HSPDP), (*Langrin*) ; Brington Buhai Lyngdoh (APHLC), (*Langkyrdem*) ; Manik Chandra Das (Cong.), (*Mahendraganj*) ; Y. Fuller Lyngdoh Mawnai (HSPDP), (*Mairang*); Upstar Kharbuli(Cong.),(*Malki-Nongthymmai*), Martin Narayan Majaw (PDIC), (*Mawhati*) ; Darwin D. Pugh (APHLC), (*Mawkhar*) ; Rowell Lyngdoh (HSPDP), (*Mawkyrwat*) ; Stanlington David Khongwir (HSPDP), (*Mawlai*) ; Dhrubanath Joshi (Cong.), (*Mawprem*) ; Karadoklie E. Tariang (HSPDP), (*Mawsynràm*) ; Ledishon Nongsiang (HSPDP), (*Mawthengkut*) ; Beninstand G Momin (APHLC), (*Mendipathar*) ; Lambourne Kharlukh (HSPDP), (*Mylliem*) ; H. Britainwar Dan (JNU), (*Nartiang*) ; Albin Lamare (APHLC), (*Nongbah-Wahiajer*) D. D. Lapang (Cong.), (*Nongpoh*) ; Dominick Nongkynrih (PDIC), (*Nongkrem*) ; Maham Singh (Cong.), (*Nongshken*); Endro Iawphniaw (HSPDP), (*Nongstoin*) ; Winstone Syiemiong (HSPDP), (*Nongspung*) ; Tuberlin Lyngdoh (HSPDP), (*Parlong*) ; Akramozzaman (Cong.), (*Phulbari*) ; Dr. B. K. Roy (Cong.), (*Pynthorumkhrah*) ; Mozibar Rahman (Ind.), (*Rajabala*) ; H. Hadem (HSPDP), (*Raliang*) ; Jenden Ch. Marak (APHLC), (*Rangsakona*) ; Salseng Marak (Cong.), (*Resubelpara*) ; M. Reidson Momin (Cong.), (*Rongchugiri*) ; Pleander G. Momin (Cong.), (*Rongjeng*) ; Crunden S. Sangma (APHLC), (*Rongram*) ; Albinstone M. Sangma (Cong.), (*Rongrenggiri*) ; Obil Kyndait (HSPDP), (*Rymbai*) ; Meckenson K. Sangma (APHLC), (*Salmanpara*) ; Girash Marak (APHLC), (*Selsella*) ; Stanley D. D. Nichols Roy (APHLC), (*Shella*) ; Medras Mylliem (HSPDP), (*Sohiong*) ; S. Phaindrojen Swer (APHLC), (*Sohra*) ; Grosswell Mylliemngap (APHLC), (*Sohryngkham*) ; Smt. Miriam D. Shira (APHLC), (*Songsak*) ; Dr. Barrister Pakem (HSPDP), (*Sutnga-Shangpung*) ; Jogendra Nath Bantha (Ind.), (*Tikrikilla*) ; Singjan Sangma (Cong.), (*Tura*) ; Evansius Kek Mawlong (Ind.), (*Umroi*) ; John Deng Pohrmen (APHLC), (*War Jaintia*).

MIZORAM LEGISLATIVE ASSEMBLY

Assembly was dissolved on Nov. 12, 1978.

NAGALAND LEGISLATIVE ASSEMBLY

Speaker : Vitsonei K. Angami ; *Dy. Speaker :* Rainbow Ezung.

Seats : 60 ; Electorate : 88,783 ; Votes polled : 78,843.

Party position : United Democratic Front : 39 ; Congress 15 ; National Convention of Nagaland : 1 ; Independent : 5.

A. Longnyiem (UDF), (*Aboi*) ; Kihoto (UDF), (*Aghunato*) ; Khehoto (Cong.), (*Akuluto*) ; Dr. Bendangtoshi (UDF), (*Alungtaki*) ; Shurhozelite (UDF), (*Angami — North I*) ; Chupfu-o (UDF), (*Angami—North II*) ; Vitsonei K. Angami (UDF), (*Angami — South I*) ; Vizol (UDF), (*Angami—South II*) ; Setu (Ind.), (*Angami — West*) ; Sentichuba (UDF), (*Angetyongpang*) ; S. C. Jamir (UDF), (*Aonglenden*) ; Tsukjemwati (UDF), (*Arkakong*) ; Keyezhe L. Chishi (UDF), (*Atoizu*) ; Tsenlamo Kikon (NCN), (*Bhandari*) ; Vamuzo (UDF), (*Chazouba*) ; Soyie (UDF), (*Chizami*) ; Anwar Hussain (Cong.), (*Dimapur I*) ; Vikheshe (Cong.), (*Dimapur II*) ; Deblal Mech (Cong.), (*Dimapur III*) ; K. Shikhu (Ind.), (*Ghaspani*) ; Rokonicha (UDF), (*Ghaspani II*) ; Kariba (UDF), (*Impur*) ; Imchalemba (UDF), (*Jangpetkong*) ; J. B. Jasokie (Cong.), (*Kohima Town*) ; Dallo Namo (UDF), (*Koridang*) ; Horangse (Ind.), (*Longkhim-Chare*) ; Chenlom (UDF), (*Longleng*); Chekhutso (UDF), (*Meluri*); Manwai Awang (Ind.), (*Moka*); Takuyaba (UDF), (*Mokokchung Town*); L. Metna (Ind.), (*Mon Town*); T. Imtimeren (UDF), (*Mongoya*); Thangpong (UDF), (*Moklak*); C. Chongshen (Cong.), (*Noksen*); L. Lungalang (UDF), (*Peren*); Lhiweshielo (UDF), (*Pfutsero*); Vejoyi (UDF), (*Phek*); Pohwang (UDF), (*Phomching*); Huska (UDF), (*Pughoboto*); Kichingse (UDF), (*Pungro-Kiphire*); Mhonshan Murry (UDF), (*Sanis*); Kaito (Cong.), (*Satakha*); Yopikyu (UDF), (*Seyochung-Sitimi*); K. Zungkum Yimchunger (UDF), (*Shamatorr-Chessore*); Kanito (Cong.), [illegible] Bangjak Phom (UDF), (*Tamlu*); Noke (UDF), [illegible] Manlem (UDF), (*Tehok*); N. C. Zeliang (Cong.), (*Tenning*) Pongom (Cong.), (*Thonoknyu*); P. K. Along (UDF) (*Tizit*); Nuklo (UDF), (*Tobu*); R. S. Rengma (UDF) (*Tseminyu*); H. Sao Chong (Cong.), (*Tuensang Sadar I*) Tochi Hanso (Cong.), (*Tuensang Sadar II*); T. Tali (UDF), (*Tuli*); T. A. Ngullie (Cong.), (*Tyui*); Chingwang Konyak (Cong.), (*Wakching*); Rainbow Ezung (UDF), (*Wokha*); Ghutoshe (Cong.), (*Zunheboto*).

ORISSA LEGISLATIVE ASSEMBLY

Speaker : Satya Priya Mohanty.

Dy. Speaker : Surendranath Naik.

No. of Constituencies : 147.

Electorate : 12,666,382 ; Votes Polled : 5,281,410.

Party Position : Janata Party : 117 ; Congress : 7 ; Congress (I) : 19 ; Communist Party of India (Marxist) : 1 ; Communist Party of India : 1 ; Independent : 2.

Women Members : 7 ; Members of the Scheduled Tribes : 34 ; Scheduled Castes : 22.

Makar Sethi (J.P.), (*Anandapur—S.C.*); Adwait Prasad Singh (J.P.), (*Angul*); Harihar Swain (J.P.), (*Aska*); Balakrushna Patnayak (J.P.), (*Athamalik*); Smt. Rasamanjari Devi (J.P.), (*Athgarh*); Sarat Kumar Deb (J.P.), (*Aul*); Sunaram Soren (J.P.), (*Bahalda—S.T.*); Ram Chandra Kisku (J.P.), (*Baisinga—S.T.*); Kartik Chandra Rout (J.P.), (*Balasore*); Umesh Swain (J.P.), (*Balikuda*); Gopinath Bhoi (J.P.), (*Balipatna—S.C.*); Sadananda Konhor (J.P.), (*Balliguda—S.T.*); Purushottam Naik (J.P.), (*Bangriposi—S.T.*); Jogesh Chandra Rout (Cong.), (*Banki*); Raja S. T. S. Deo (Ind.), (*Baramba*); Mangobinda Samal (J.P.), (*Barchana*); Nabin Kumar Pradhan (J.P.), (*Bargarh*); Srikanta Kumar Jena (J.P.), (*Bari-Derabisi*); Prasanna Kumar Dash (Cong.), (*Baripada*); Maheswar Baug (J.P.), (*Basta*); Nilamoni Routray (J.P.), (*Basudevpur*).

Chintamani Panigrahi (Cong.), (*Begunia*); Smt. Ratana Manjari Devi (J.P.), (*Berhampur*); Kapila Charan Sethi (J.P.), (*Bhandaripokhari—S.C.*); Ratnakar Mohanty (J.P.), (*Bhadrak*); J. Subba Rao Pursty (J.P.), (*Bhanjanagar*); Bimbadhar Kunar (J.P.), (*Bhatli—S.C.*); Dayanidhi Naik (Cong.), (*Bhawanipatna—S.C.*); Sushanta Chand (J.P.), (*Bhograi*); S. P. Mohanty (J.P.), (*Bhubaneswar*); Nityananda Gartia (J.P.), (*Bijepur*); Santanu Kumar Das (J.P.), (*Binjharpur—S.C.*); Parikhita Karna (J.P.), (*Binka*); Surendra Pradhan (J.P.), (*Biramaharajpur*); Premchand Bhagat (J.P.), (*Birmitrapur—S.T.*); Dambarudhar Ulka (Cong.—I.), (*Bissam-Cuttack—S.T.*); Muralidhar Guru (J.P.), (*Bolangir*); Hemanta Kumar Singh Dandpat (J.P.), (*Bonai—S.T.*); Natabar Pradhan (J.P.), (*Baudh*); Ajoy Kumar Jena (J.P.), (*Brahmagiri*); Upendra Dikshit (Cong.—I.), (*Brajarajnagar*).

Saharei Oram (J.P.), (*Champua—S.T.*); Gangadhar Das (J.P.), (*Chandbali—S.C.*); Biswanath Sahu (C.P.I.), (*Chatrapur*); Jagannath Pati (J.P.), (*Chikati*); Biswabhusan Harichandan (J.P.), (*Chilka*); Prahallad Dora (J.P.), (*Chitrakonda*); Raj Kishore Ram (J.P.), (*Choudwar*); Biswanath Pandit (J.P.), (*Cuttack*); S. K. Mohapatra (J.P.), (*Cuttack Sadar*); Shyamaghana Majhi (J.P.), (*Dabugam—S.T.*); Harihar Karan (Cong.—I.), (*Daspalla*); Bhanuganga Tribhuban Deb (J.P.), (*Deogarh*); Hrudananda Mallick (J.P.), (*Dhamnagar*); Gajanan Nayak (Cong.), (*Dharamgarh—S.C.*); Rabi Das (J.P.), (*Dharmasala*); Smt. Nandini Satpathy (J.P.), (*Dhenkanal*); Damodar Rout (J.P.), (*Ersama*).

Panchanan Kanungo (J.P.), (*Gobindpur*); Haladhar Misra (J.P.), (*Gondia*); Ghanosyam Behera (Cong.—I.), (*Gopalpur—S.C.*); Smt. Bhagirathi Gomango (Cong.—I.), (*Gunupur—S.T.*); Trinath Nayak (J.P.), (*Hindol—S.C.*); Brundaban Nayak (Cong.—I.), (*Hinjili*); Udayanath Nayak (J.P.), (*Jagannath Prasad—S.C.*); Kanduri Charan Mallick (J.P.), (*Jagatsinghpur—S.C.*); Jagannath Mallick (J.P.), (*Jajpur—S.C.*); Gadadhar Giri (J.P.), (*Jaleswar*); Kanhuram Hembram (J.P.), (*Jashipur—S.T.*); Suresh Kumar Routra (J.P.), (*Jatni*); Smt. Sairindri Nayak (Cong.), (*Jharsuguda*); Raghunath Pattnaik (Cong.—I.), (*Joypore*); Maheswar Barad (Cong.—I.), (*Junagarh*).

Surendranath Nayak (J.P.), (*Kakatpur*); Prasanna Kumar Pattnayak (J.P.), (*Kamakhyanagar*); Prasanna Kumar Pal (Cong.—I.), (*Kantabanji*); Raghunath Hemram (J.P.), (*Karanjia—S.T.*); Tarini Patnayak (J.P.), (*Kavisuryanagar*); Bed Prakash Agrawalla (J.P.), (*Kendrapara*); Kumar Majhi (J.P.), (*Keonjhar—S.T.*); Nagendranath Choudhury (J.P.), (*Kesinga*); Smt. V. Sugnana Kumari Deb (J.P.), (*Khallikote*); Satyasundar Misra (Ind.), (*Khandapara*); Kapil Narayan Tiwari (J.P.), (*Khariar*); Ramesh Soren (Cong.—I.), (*Khunta—S.T.*); Sudarsan Mohanty (J.P.), (*Khurda*); Batakrushna Jena (J.P.), (*Kissannagar*); Jagateswar Mirdha (Cong.), (*Kuchinda — S.T.*); Ramkrushna Pattnaik (J.P.), (*Kodala*); Domburu Majhi (Cong. — I.), (*Kodinga — S.T.*); Rasabehari Behera (Cong. — I.), (*Koksara*); Basudev Majhi (Cong. — I.), (*Kotpad — S.T.*); Ashok Kumar Das (J.P.), (*Korai*); Harish Chandra Buxipatra (J.P.), (*Koraput*); Niranjan Hembram (J.P.), (*Kuliana — S.T.*).

Rameswar Singh Naik (J.P.), (*Laikera—S.T.*); Akhil Saunta (J.P.), (*Laxmipur—S.T.*); Ram Prasad Misra (J.P.), (*Loisinga*); Pradipta Kishore Dash (J.P.), (*Mahanga*); Naka Kanaya (J.P.) (*Malkangiri—S.C.*); Birendra Kumar Sahoo (J.P.), (*Melchhamunda*); Udaya Narayan Deb (J.P.), (*Mohana*); Tejraj Majhi (Cong.—I.), (*Nuala—S.T.*); Ghasiram Majhi (J.P.), (*Nawapara*); Habibulla Khan (Cong.—I.), (*Nawarangapur*); [illegible] Behera (J.P.), (*Nayagarh*); R. M. Harichandan (J.P.), (*Nilgiri*); G. C. Sethi (J.P.), (*Nimapara—S.C.*); Bir Bikramaditya Singh Bariha (J.P.), (*Padampur*); Dharanidhar Pradhan (J.P.), (*Pallahara*); Bijoy Kumar Jena (J.P.), (*Parlakhemundi*); Prahallad Mallick (J.P.), (*Patkura*); Maheswar Majhi (J.P.), (*Patna—S.T.*); Bibekananda Meher (J.P.), (*Patnagarh*); [illegible] Kumar Das (J.P.), (*Pattamundai—S.C.*); Jayaram Pangi (J.P.), (*Pattangi—S.T.*); Prahallad Behera (J.P.), (*Phulbani—S.C.*); Kiran Lekha Mohanty (J.P.), (*Pipili*); Braj Kishore Tripathy (J.P.), (*Puri*).

Rabi Dehury (J.P.), (*Raghunathpali—S.T.*); [illegible] Mahananda (J.P.), (*Rairakhol—S.C.*); [illegible] Majhi (J.P.), (*Rairangpur—S.T.*); [illegible] (J.P.), (*Rajgangpur—S.T.*); [illegible] Mohanty (J.P.), (*[illegible]*); [illegible] Savara (Cong.—I.), (*Ramagiri—S.T.*); K. P. [illegible] (J.P.), (*[illegible]*); [illegible] (C.P.I. — M.), (*Ranpur*); Ramchandra Ulka (Cong.—I.), (*Rayagada—S.T.*); Brajakishore Mohanty (J.P.), (*[illegible]*); Subash Chandra Bag (J.P.), (*Saintala*); K

Behera (J.P.), (*Salepur—S.C.*) ; Jhasketan Sahu (J.P.), *Sambalpur*) ; Chandramadhab Mishra (J.P.), (*Satyabradi*) ; Gopinath Das (J.P.), (*Simulia*) ; Debraj Sethi (J.P.), (*Sonapur—S.C.*) ; Haraprasad Mohapatra (J.P.), (*Soro*) ; Smt. Ananda Manjari Debi (J.P.), (*Sukinda*) ; Kishore Chandra Patel (Cong.-I.), (*Sundargarh*) ; Ananta Narayan Singh Deo (J.P.), (*Suruda*). Brundaban Behera (J.P.), (*Talcher—S.C.*) ; Ignes Majhi (J.P.), (*Talasara—S.T.*) ; Nilandri Naik (J.P.), (*Telkoi—S.T.*) ; Pratap Chandra Mohanty (J.P.), (*Tirtol*) ; Lalit Mohan Gandhi (Cong.-I.), (*Titilagarh—S.C.*) ; Birabhadra Singh (J.P.), (*Udala—S.T.*) ; Ranjit Kumar Pradhan (J.P.), (*Udayagiri—S.T.*) ; Rabisingh Majhi (J.P.), (*Umerkote—S.T.*).

PONDICHERRY LEGISLATIVE ASSEMBLY

Assembly was dissolved on Nov. 12, 1978.

PUNJAB LEGISLATIVE ASSEMBLY

Speaker : Ravi Inder Singh ; *Dy. Speaker :* Pannalal Nayar.

Seats : 117 ; Party position : Akali Dal : 58 ; Janata Party : 25 ; Congress 2 ; Congress (I): 16 ; Communist Party of India (Marxist) : 8 ; Communist Party of India : 7 ; Independents : 2 ; Women members : 3.

Ch. Bal Ram Jakhar (Cong.-I.), (*Abohar*) ; Sarup Singh (J.P.), (*Adampur*) ; Shashpal Singh (A.D.), (*Ajnala*) ; Dalip Singh Pandhi (A.D.), (*Amloh—S.C.*) ; B. D. Tandon (J.P.), (*Amritsar Central*) ; H. L. Khanna (J.P.), (*Amritsar North*) ; Kirpal Singh (J.P.), (*Amritsar South*) ; Satyapal Dang (C.P.I.), (*Amritsar West*) ; Madho Singh (J.P.), (*Anandapur-Sahib*) ; Darshan Singh (C.P.I.-M.) (*Attari—S.C.*) ; Tej Singh (A.D.), (*Baghapurana*) ; R. K. Kataria (J.P.), (*Balachaur*) ; Ujagar Singh (Cong.-I.), (*Balluana—S.C.*) ; Harbans Singh Bika (C.P.I.-M.), (*Banga—S.C.*) ; Hansraj Sharma (Cong.-I.), (*Banur*) ; Smt. Surjit Kaur (A.D.), (*Barnala*) ; Pannalal Nayar (J.P.), (*Batala*) ; Jiwan Singh Umranangal (A.D.), (*Beas*), Kundan Singh Patang (A.D.), (*Bhadhaur—S.C.*), Hit Abhilashi (J.P.), (*Bhatinda*) ; Sukhjinder Singh Khaira (A.D.), (*Bholath*) ; Tara Singh (A.D.), (*Budhlada*) ; Smt. Satwant Kaur Sandhu (A.D.), (*Chamkaur Sahib—S.C.*) ; Lal Singh (Cong.-I.), (*Dakala*), Charanjit Singh (A.D.), (*Dakha—S.C.*) ; Cheema Gurbachan Singh (Cong.-I), (*Dasuya*) ; Sampuran Singh Dhaula (C.P.I.-M.), (*Dhanaula*), Sarwan Singh (C.P.I.), (*Dharamkot—S.C.*) ; Swaran Singh (A.D.), (*Dhariwal*) ; Sant Singh (A.D.), (*Dhuri*) ; Gian Chand Vaid (J.P.), (*Dinanagar—S.C.*); Baldev Singh Maan (A.D.), (*Dirba*) ; Man Mohan Singh Brar (A.D.), (*Faridkot*) ; Dr. Jodh Singh (A.D.), (*Fatehgarh*) ; Ch. Kanshi Ram (Cong.-I.), (*Fazilka*) ; Gardhara Singh (J.P.), (*Ferozepur*), Harpreet Singh Sandhu (A.D.), (*Ferozepur Cantt.*).

D. P. Sabharwal (J.P.), (*Garhdiwala—S.C.*) ; Darshan Singh Canadian (C.P.I.), (*Garhshankar*) ; Smt. Sandhu Jasdev Kaur (A.D.), (*Ghanaur*) ; Parkash Singh Badal (A.D.),(*Giddarbaha*); Khushal Behal (Cong.), (*Gurdaspur*) ; Lachhman Singh (Cong.-I), (*Guru Harsahai*) ; Om Prakash Bagga (J.P.), (*Hoshiarpur*) ; Dalip Singh Talwandi (A.D.), (*Jagraon*) ; Mehtab Singh Naukerian (C.P.I.), (*Jalalabad*) ; Dalbir Singh (A.D.), (*Jandiala—S.C.*) ; Baldev Singh Khiala (A.D.), (*Joga*) ; Harbhajan Singh (J.P.),(*Jullundur Cantt.*) ; Manmohan Kalia (J.P.), (*Jullundur Central*) ; Romesh Chander (J.P.), (*Jullundur North*) ; Darshan Singh (Cong.-I), (*Jullundur South—S.C.*) ; Ujagar Singh (A.D.), (*Kahnuwan*) ; Hukam Chand (J.P.), (*Kapurthala*) ; Dr. Bhagat Singh (A.D.), (*Kortarpur—S.C.*) ; Naranjan Singh Seron (A.D.), (*Khadoor Sahib—S.C.*) ; Bachan Singh Cheema (A.D.), (*Khanna—S.C.*) ; Bachittar Singh (A.D.), (*Kharar*) ; Jaswinder Singh Barar (A.D.), (*Kotkapura*) ; Daya Singh Ghamnewal (C.P.I.-M.), *Kumkalan—S.C.*) ; Gurdas Singh Badal (A.D.), (*Lambi*) ; Chitwant Singh Kouhrian (Ind.), (*Lehra*) ; Balwant Singh (A.D.), (*Lohian*) ; Dhanraj Singh Gill (A.D.), (*Ludhiana-Rural*) ; Om Parkash Gupta (Cong.-I.), (*Ludhiana East*) ; K. C. Jain (J.P.), (*Ludhiana North*) ; A. Vishwanathan (J.P.), (*Ludhiana West*) ; Kartar Singh Vaid (A.D.), (*Mahilpur—S.C.*) ; Parkash Singh (A.D.), (*Majitha*) ; Haji Anwar Ahmed Khan (A.D.), (*Malerkotla*) ; Dana Ram (C.P.I.), (*Malout—S.C.*) ; Des Raj (J.P.), (*Mansa*) ; Rup Lal (J.P.), (*Moga*) ; Ravi Inder Singh (A.D.), (*Morinda*) ; Dr. Kewal Krishan (Cong.-I.), (*Mukerian*) ; Kanwarjit Singh Brar (Cong.-I.), (*Muktsar*) ; Gurdarshan Singh (Cong.-I.), (*Nabha*) ; Umrao Singh (Cong.), (*Nakodar*) ; Madan Mohan Mittal (J.P.), (*Nangal*) ; Ch. Sunder Singh (Cong. I), (*Narot Mehra—S.C.*) ; Teja Singh (A.D.), (*Nathana—S.C.*) ; Ranjit Singh (A.D.), (*Naushehra Panwan*) ; Jatinder Singh Kariha (A.D.), (*Nawanshahr*) ; Gurdev Singh 'Shant' (A.D.), (*Nihalsinghwala—S.C.*) ; Sarwan Singh (C.P.I.-M.), (*Nurmahal*) ; Sukhdev Singh Sukhladhi (A.D.), (*Pakka Kalan—S.C.*) ; Gurdev Singh Bada. (A.D.), (*Panj Grain—S.C.*) ; Om Parkash Bhardwaj (J.P.), (*Pathankot*) ; Sardar Singh Kohli (A.D.), (*Patiala Town*) ; Naranjan Singh (A.D.), (*Patti*) ; Beant Singh (Cong.-I.), (*Payal*) ; Dr. Sadhu Ram (J.P.), (*Phagwara—S.C.*) ; Srawan Singh (A.D.), (*Phillaur—S.C.*) ; Mohinder Singh Sarupwali (A.D.), (*Qadian*) ; G. Arjan Singh (A.D.), (*Quila Raipur*) ; Devraj Singh (A.D.), (*Rai Kot*) ; Dalip Singh Tapiala (C.P.I.-M.), (*Rajasansi*) ; Harbans Lal (J.P.), (*Rajpura*) ; Master Babu Singh (C.P.I.), (*Rampuraphul*) ; Gurdev Singh Grewal (A.D.), (*Samana*) ; Prehlad Singh (A.D.), (*Samrala*) ; Gurdial Singh (J.P.), (*Sangrur*) ; Balwinder Singh Bhunder (A.D.), (*Sardulgarh*) ; Dr. Dev Raj Nasrala (C.P.I.-M.), (*Sham Chaurasi—S.C.*) ; Master Chand Singh (C.P.I.-M.), (*Sherpur—S.C.*) ; Baldev Singh Loomba (C.P.I.), (*Shutrana — S.C.*) ; Randhir Singh Cheema (A.D.), (*Sirhind*) ; Natha Singh Dalam (A.D.), (*Srihargobindpur*) ; Chaman Lal (Cong.-I.), (*Sujanpur*) ; Atma Singh (A.D.), (*Sultanpur*) ; Sukhdev Singh (A.D.), (*Sunam*) ; Sukhdev Singh Dhillon (A.D.), (*Talwandi Sabo*) ; Upkar Singh (A.D.), (*Tanda*) ; Manjinder Singh Behla (Ind.), (*Tarn Taran*) ; Prof. Jagir Singh (A.D.), (*Valtoha*) ; Khazam Singh Mirankot (A.D.), (*Verka—S.C.*) ; Hari Singh (A.D.), (*Zira*).

RAJASTHAN LEGISLATIVE ASSEMBLY

Speaker : Lakshan Singh.

Dy. Speaker : Ram Chandra.

Seats : 200. Party position : Congress : 30; Cong.-I. : 11 ; Janata Party : 148 ; Pragati Shil Dal : 4 ; Communist Party of India : 1 ; Communist Party (Marxist) : 1 ; Independents : 3 ; Women Members : 8 ; Vacant : 2.

Onkarlal Chauhan (J.P.), (*Aatru—S.C.*) ; Bhura Ram (Cong.), (*Abu—S.C.*) ; Gopal Singh (Cong.), (*Ahore*) ; Kalyan Singh (J.P.), (*Ajmer East—S.C.*) ; Nawal Rai (J.P.), (*Ajmer West*) ; Jitmal Jain (J.P.), (*Alwar*) ; Ku. Pushpa Jain (J.P.), (*Amer*) ; Vijendrapal Singh (J.P.), (*Asind*) ; Bhimji (Cong.), (*Aspur—S.T.*).

Nathu Ram (J.P.), (*Bagidoura—S.T.*) ; Ramji Lal (J.P.), (*Bairh—S.C.*) ; Smt. Gunwant Kumari (J.P.), (*Bairath*) ; Hanwant Singh (J.P.), (*Bali*) ; Kunj Lal Meena (J.P.), (*Bamanvas—S.T.*) ; Vijay Singh Nandera (J.P.), (*Bandi Kui*) ; Kalyan Singh Kalvi (J.P.), (*Banera*) ; Hari Singh Yadav (J.P.), (*Bansur*) ; Harideo Joshi (Cong.), (*Banswara*) ; Raghubir Singh Kaushal (J.P.), (*Baran*) ; Salig Ram (Cong.), (*Bari*) ; Birdhi Chand Jain (Cong.-I.), (*Barmer*) ; Shiv Raj Singh (J.P.), (*Bassi*) ; Shiv Charan Singh (P.S.D.), (*Bayana*) ; H. N. Sharma (J.P.), (*Begun*) ; Bhawani Singh Yadav (J.P.), (*Behrur*) ; Lal Chand (J.P.), (*Bhadra*) ; Suresh Kumar (J.P.), (*Bharatpur*) ; Ram Narayan (Cong.), (*Bhilara*) ; Kaushal Kishore Jain (J.P.), (*Bhilwara*) ; Maj. Fateh Singh (J.P.), (*Bhim*) ; Ratanlal Varma (J.P.), (*Bhinai — S.C.*) ; Suraj Pal Singh (Cong.), (*Bhinmal*) ; P. Malviya (Cong.), (*Bhopalgarh*) ; Mehboob Ali (J.P.), (*Bikaner*) ; Om Prakash (J.P.), (*Bundi*) ; Bharosingh Rokhavath (J.P.), (*Chabra*) ; Lakshman Singh (Ind.), (*Chitorgarh*) ; Abdul Hadi (Cong.), (*Chouhtan*) ; Rameshwar (J.P.), (*Choumu*) ; Hira Lal (J.P.), (*Chourasi — S.T.*) ; Megh Raj Pawar (J.P.), (*Churu*).

Bal Chandra Arya (J.P.), (*Dag—S.C.*) ; Bahadur Singh (J.P.), (*Danpur—S.T.*) ; Madan Singh (Ind.) (*Dantaramgarh*) ; Moolchand Samaria (J.P.), (*Dausa—S.C.*) ; Mathuradas Mathur (Cong.), (*Deedwana*) ; Raja Mansingh (Ind.), (*Deeg*) ; Ram Raghunath (Cong.), (*Degana*) ; Achala Ram (J.P.), (*Desuri—S.C.*) ; Ramdev Singh (Cong.), (*Dhod*) ; Jagdish Singh (J.P.), (*Dholpur*) ; Dev Dayal Joshi (J.P.), (*Digod*) ; Sohanlal Banshiwal (J.P.), (*Dudu*) ; Mohanlal Sharma (J.P.), (*Dungargarh*) ; Amritlal (J.P.), (*Dungurpur —S.T.*).

Alam Ali Khan (J.P.), (*Fatehpur*) ; Kedar Nath (J.P.), (*Ganganagar*) ; Govind Sahai (J.P.), (*Gangapur*) ; Mangi Lal (J.P.), (*Gangrar—S.C.*) ; Nathu Lal (J.P.), (*Ghataul —S.T.*) ; Bhura (J.P.), (*Gogunda—S.T.*) ; Inder Singh (J.P.), (*Gudha*) ; Gangaram Chauduri (Cong.), (*Gudhamalani*).

Shopat Simhkasar (C.P.I.—M.) ; (*Hanumangarh*) ; Bhanwar Lal Sharma (J.P.), (*Hawamahal*) ; Sharavan Lal (J.P.), (*Hindaun—S.C.*) ; Ganesh Lal (J.P.), (*Hindoli*).

Trilok Chand Jain (J.P.), (*Jahazpur*) ; Smt. Ujala Arora (J.P.), (*Jaipur-Rural*) ; Kishan Singh Bhati (J.P.), (*Jaisalmer*) ; Rameshwar (J.P.), (*Jamwaramgarh*) ; Tikam Chand Kant (J.P.), (*Jalaur—S.C.*) ; Mangilal (Cong.), (*Jayal—S.C.*) ; Shankar Lal (Cong.), (*Jetaram*) ; Nirmal Kumar (J.P.), (*Jhalra Patan*) ; Smt. Sumitra Singh (Cong.), (*Jhunjhunu*) ; Birdmal Singhvi (J.P.), (*Jodhpur*) ; Gul Mohammed (J.P.), (*Johari Bazar*) ; Mohammed Zahoor (J.P.), (*Kaman*).

Smt. Shyama Kumari (J.P.), (*Kapasan*) ; Jagtar Singh (Cong.-I.), (*Karanpur*) ; Hans Ram (Cong.-I.), (*Karauli*) ; Dr. Ganga Sahai (J.P.), (*Kathumar—S.C.*) ; Mohanlal (J.P.), (*Kekri—S.C.*) ; Manful Ram (Cong.-I), (*Kesari Sinhpur—S.C.*) ; Sampat Ram (J.P.), (*Khairtal—S.C.*) ; Chuni Lal (J.P.), (*Khandar—S.C.*) ; Gopal Singh (J.P.), (*Khandela*) ; Bhairav Lal (J.P.), (*Khanpur*) ; Khangar Singh (J.P.), (*Kharchi*) ; Surya Prakash (J.P.), (*Kherwara —S.T.*) ; Mala Ram (J.P.), (*Khetri*) ; Smt. Narangi Devi (J.P.), (*Kishanganj—S.T.*) ; Kartar Singh (J.P.), (*Kishangarh*) ; Girdhari Lal Bhargava (J.P.), (*Kishanpole*) ; Ram Krishna Das (Ind.), (*Kolayat*) ; Lalit Kishor Chaturvedi (J.P.), (*Kota*) ; Ram Karan Singh (P.S.D.), (*Kotputli*) ; Govind Singh Shaktawat (J.P.), (*Kumbhalgarh*) ; Kashi Nath (J.P.), (*Kumhar*) ; Jithing (J.P.), (*Kushalgarh—S.T.*).

Nathi Singh (J.P.), (*Lachmanagar*) ; Paras Ram Mordiya (Cong.-I.), (*Lachmangarh—S.C.*) ; Harji Ram Burdhak (J.P.), (*Ladnu*) ; Purushottam Mantri (J.P.), (*Ladpura*) ; Ch. Nathi Singh (J.P.), (*Lakshamangarh*) ; Har Sahay (J.P.),(*Lalsot—S.T.*) ; Narayan (J.P.), (*L*[illegible]) ; Ram Singh Vishnoi (Cong.), (*Looni*) ; Manikchand [illegible] (J.P.), (*Lunkaransar*).

Umrao Singh (J.P.), (*Mahuwa*) ; Abdul Aziz (Cong.), (*Makrana*) ; Narayan Singh (J.P.), (*Malpura*) ; Ram Prasad Ladha (J.P.), (*Mandal*) ; Manohar Singh [illegible] (J.P.), (*Mandalgarh*) ; Ram Narain Chowdhari (Cong.-I.), (*Mandawa*) ; Vittal Prakash Sharma (J.P.), (*Manohar Thana*) ; Joora (C.P.I.), (*Masuda*) ; N. P. S. Chowdhari (J.P.), (*Mavli*) ; Ramlal (Cong.), (*Medta*) ; Ramdev (Cong.), (*Moondwa*) ; Hiralal Chaudhari (J.P.), (*Mundwar*) ; Hari Krishna (J.P.), (*Nadbai*) ; Adityendra (J.P.), (*Nagar*).

Bansilal Saraswat (J.P.), (*Nagaur*) ; Manaklal (J.P.), (*Nainwa*) ; Bhanwar Lal Airon (J.P.), (*Nasirabad*) ; Navnit Kumar Paliwal (J.P.), (*Nathdwara*) ; Navrang Singh (J.P.), (*Nawalgarh*) ; Rameshwar Lal Chowdhari (Cong.), (*Nawan*) ; Padan Singh Rathod (J.P.), (*Neembaheda*) ; S. N. Chowdhari (J.P.), (*Neem-ka-Thana*) ; Jainarain (J.P.), (*Niwai—S.C.*) ; Bahadur Singh (J.P.), (*Nohar*) ; Udaram Hatila (J.P.), (*Nokha—S.C.*) ; Ranjit Singh (Cong.), (*Osiyan*).

Smt. Madan Kaur (Cong.), (*Pachpadra*) ; Mulchand Daga (Cong.), (*Pali*) ; Jethmal Barhad (Cong.), (*Parbatsar —S.C.*) ; Gopal (J.P.), (*Patan—S.C.*) ; Shiv Karan (J.P.), (*Phagi—S.C.*) ; Lalu (J.P.), (*Phalasia—S.T.*) ; Balkrishna Thanvi (*Phalodi*) ; Hari Singh (J.P.), (*Phulera*) ; Ishwar Chandra (J.P.), (*Pirawa*) ; Shish Ram Ola (Cong.-I.), (*Pilani*) ; Har Chand (J.P.), (*Pilbanga*) ; Aldaram Mina (J.P.), (*Pindvara-Abu—S.T.*) ; Hiralal Arya (J.P.), (*Pipalda—S.C.*) ; Vithal (J.P.), (*Pipalkhunt—S.T.*) ; Kalu (J.P.), (*Pratapgarh—S.T.*) ; Chiranjlal (J.P.), (*Pushkar*).

Sukhlal Saincha (Cong.), (*Raipur*) ; Dula Ram (Cong.-I), (*Raisinghnagar—S.C.*) ; Pradyumn Singh (P.S.D.), (*Rajakhera*) ; Smarth Lal (P.S.D.), (*Rajgharh—S.C.*) ; Kailash Chandra (J.P.), (*Raj Samand—S.C.*) ; Harish Kumar (J.P.), (*Ramganjmandi*) ; Jai Kishan Sharma (Cong.-I.), (*Ramgarh*) ; Ratna Ram (Cong.), (*Raniwara*) ; J. C. Sharma (J.P.), (*Ratangarh*) ; Madho Singh (Cong.), (*Reodar*) ; Datta Ram (J.P.), (*Rupawas*).

Jai Narayan (J.P.), (*Sadulpur*) ; Lal Shankar (J.P.), (*Sagwara—S.T.*) ; Ramchandra Jat (J.P.), (*Sahara*) ; Mavji (J.P.), (*Salumber—S.T.*) ; Smt. Vidya Pathak (J.P.), (*Sanganer*) ; Ramchandra (Cong.), (*Sangaria*) ; Raghunath Vishnoi (Cong.), (*Sanchore*) ; Gamir Lal (J.P.), (*Sarada—S.T.*) ; Hazari Ram Saran (J.P.), (*Sardar Shaher*) ; Madan Singh Kachwaha (J.P.), (*Sardar Pura*) ; Rangji (J.P.), (*Sapotra—S.T.*) ; Manjoor Ali (J.P.), (*Sawai Madhopur*) ; Bharon Lal (J.P.), (*Shahpura—S.C.*) ; Khet Singh Rathod (Cong.), (*Shergarh*) ; Harlal Singh Khurrah (J.P.), (*Srimadhopur*) ; Kan Singh (J.P.), (*Shiv*) ; Ranmal Singh (Cong.), (*Sikar*) ; Ram Kishor Meena (J.P.), (*Sikrai—S.T.*) ; Raghunandan Vyas (J.P.), (*Sirohi*) ; Chauna Ram (J.P.), (*Siwana—S.C.*) ; Madhav Singh (Cong.), (*Sojat*) ; Rawat Ram (J.P.), (*Sujangarh—S.C.*) ; Vigyan Modi (J.P.), (*Sumerpur*) ; Subhash Chandra Arya (J.P.), (*Surajgarh—S.C.*) ; N. Barbar (Cong.-I), (*Sursagar—S.C.*) ; Gurusharan Chabra (J.P.), (*Suratgarh*).

Dungar Ram (J.P.), (*T.B.—S.C.*) ; [illegible] (J.P.), (*Taranagar*) ; Shiv Narayan (J.P.), (*Thanagazi*) ; [illegible] (J.P.), (*Tijara*) ; Babu Lal (J.P.), (*Toda Bhim—S.T.*) ; Gordhan (J.P.), (*Todaraai Singh*) ; Ajit Singh (J.P.), (*Tonk*).

Gulab Chand (J.P.), (*Udaipur*) ; Nand Lal (J.P.), (*Udaipur Rural—S.T.*) ; Digvijay Singh (J.P.), (*Udaipurwati*).

Kamlendra Singh (J.P.), (*Vallabhnagar*) ; Ugam Mehta (J.P.), (*Vyawar*).

SIKKIM LEGISLATIVE ASSEMBLY

Speaker : B. B. Gurung ; *Dy. Speaker :* Kalzang Gyatso. Woman member : 1.

Total No. of seats : 32. Party position : Janata Party : 25 ; Sikkim Prajatantra Congress : 7.

Members : Dugo Bhutia (*Assam-Lingjey*) ; Nanda Kumar Subedi (*Barmiok*) ; Kehar Singh Karki (*Central Pendam — East Pendam*) ; B. B. Gurung (*Chakung*) ; Ratna Bijay Rai (*Damthang*) ; Krishna Bahadur Limboo (*Daramdin*) ; Nar Bahadur Khatiwara (*Dentam*) ; Loden Tsering Lepcha (*Djongu*) ; Dorjee Tshering Bhutia (*Gangtok*) ; Smt. Hemlata Chettri (*Geyzing*) ; Krishna Chandra Pradhan (*Jorethang-Nayabazar*) ; Kalzang Gyatso Bhutia (*Kabi-Tingda*) ; Kusu Das (*Khamdong*) ; Tasa Tengay Lepcha (*Lachen-Mangshila*) ; R. C. Poudyal (*Loosing-Pachekhani*) ; Shepechung Bhutia (*Martam*) ; Nanda Bahadur Rai (*Melli*) ; Sonpom Lepcha (*Pathing*) ; Rinzing Tongden Lepcha (*Rakdong-Tentek*) ; Passang Tshering Bhutia (*Ralang*) ; Nim Tshering Lepcha (*Ranka*) ; Bhuwani Prasad Kharel (*Rateypani-West Pendam*) ; Mohan Gurung (*Regu*) ; Bhawani Prasad Dahal (*Rhenock*) ; Nayen Tsering Lepcha (*Rinchenpong*) ; Phigu Tshering Bhutia (*Rumtek*) ; Karma Gonpo Lama (*Sangha*) ; Chatur Singh Rai (*Soreong*) ; Lhendup Dorjee Kazi (*Tashiding*) ; Badrinath Pradhan (*Temi-Tarku*) ; Adar Singh Lepcha (*Wak*) ; Degay Bhutia (*Yoksam*).

TAMIL NADU LEGISLATIVE ASSEMBLY

Speaker : Munu Adhi.

Dy. Speaker : S. Thirunavukkarasu.

Total Seats : 234 ; Nominated : 1 ; No. of Women Members : 2 ; Total No. of Electorate : 28,173,342 ; No. of Votes polled : 17,343,472.

Estimate of Party position : All India Anna Dravida Munnetra Kazhagam : 125 ; Dravida Munnetra Kazhagam: 48 ; Congress : 27 ; Communist Party (Marxist) : 12 ; Janata Party : 10 ; Communist Party of India : 5 ; Forward Bloc : 2 ; Tamil Nadu Toilers Progressive Party : 2 ; Muslim League : 1 ; All India Forward Bloc : 1.

K. Ethiraj (A.I.A.D.M.K.), (*Acharapakkam*) ; Abdul Razack (A.I.A.D.M.K.), (*Alandur*) ; T. Pushparaju (Cong.), (*Alangudi*) ; V. Karuppasami Pandian (A.I.A.D.M.K.), (*Alangulam*) ; P. Easwara Moorthy (C.P.I.-M.) (*Ambasamudram*) ; R. Margabandu (T.N.T.P.P.), (*Anaicut*) ; T. Subramanian (A.I.A.D.M.K.), (*Andimadam*) ; P. Guruswamy (A.I.A.D.M.K.), (*Andhiyur*) ; K. Kandasami (F.B.), (*Andipatti*) ; M. Karunanidhi (D.M.K.), (*Annanagar*) ; S. Thirunavekkarasu (A.I.A.D.M.K.), (*Arantangi*) ; S. Sadasivam (Cong.), (*Aravakurichi*) ; K. J. Uyyakondan (A.I.A.D.M.K.), (*Arcot*) ; T. Arumugam (D.M.K.), (*Ariyalur*) ; V. K. Raju (A.I.A.D.M.K.), (*Arkonam — S.C.*) ; V. Arjunan (A.I.A.D.M.K.), (*Arni*) ; M. G. Ramachandran (A.I.A.D.M.K.), (*Aruppukkottai*) ; A. Vellaiswamy (A.I.A.D.M.K.), (*Athoor*) ; C. Palanimuthu (Cong.), (*Attur*) ; S. N. Palaniswamy (Cong.), (*Avanashi*) ; H. G. Arumugam (A.I.A.D.M.K.), (*Bargur*) ; M. R. Soundararajan (A.I.A.D.M.K.), (*Bhavani*) ; V. K. Chinnasamy (A.I.A.D.M.K.), (*Bhavanisagar*) ; V. Raghuraman (D.M.K.), (*Bhuvanagiri*) ; P. Ramdoss (A.I.A.D.M.K.) (*Bodinayakkanur*).

Anoor Jagadeesan (A.I.A.D.M.K.), (*Chengalpattu*) ; T. Samikannu (A.I.A.D.M.K.), (*Chengam — S.C.*) ; A. Rahman Khan (D.M.K.), (*Chepauk*) ; P. H. Pandian (A.I.A.D.M.K.), (*Cheraumahadevi*) ; Pulavar K. Govindan (D.M.K.), (*Cheyyar*) ; Durai Kaliamoorthy (D.M.K.), (*Chidambaram*) ; M. Subramaniam (A.I.A.D.M.K.), (*Chinnasalem*) ; K. Ramani (C.P.I.-M.), (*Coimbatore-East*) : C. Aranganayakam (A.I.A.D.M.K.), (*Coimbatore West*) ; R. Athiswami (J.P.), (*Colachel*) ; K. Rangaswamy (D.M.K.), (*Coonoor—S.C.*) ; K. Abdul Lateef (A.I.A.D.M.K.), (*Cuddalore*) ; R. Chandrasekaran (A.I.A.D.M.K.), (*Cumbum*) ; R. Ayyachamy (A.I.A.D.M.K.), (*Dharapuram*) ; P. K. C. Muthuswamy (J.P.), (*Dharmapuri*) ; N. Varadarajan (C.P.I.-M.), (*Dindigul*) ; I. Ganesan (A.I.A.D.M.K.), (*Edappadi*) ; S. Manimudi (D.M.K.), (*Egmore—S.C.*) ; S. Muthusamy (A.I.A.D.M.K.), (*Erode*); N. Ramachandran (D.M.K.), (*Ginjee*) ; K. N. K. Ramasamy (A.I.A.D.M.K.), (*Gobichettipalayam*) ; K. Hutchi (D.M.K.), (*Gudalur*) ; V. K. Kothandaraman (C.P.I.-M.), (*Gudiyatham*) ; S. Munirathinam (A.I.A.D.M.K.), (*Gummidipoondi*) ; A. Selvarajan (D.M.K.), (*Harbour*) ; M. Annamalai (C.P.I.-M.), (*Harur—S.C.*) ; N. Ramachandra Reddy (Cong.), (*Hosur*) ; S. Sivasamy (C.P.I.), (*Ilayangudi*) ; V. Karunamurthy (D.M.K.), (*Jayakondam*).

K. Sengodan (A.I.A.D.M.K.), (*Kabilamalai*) ; R. C. Subramaniam (A.I.A.D.M.K.), (*Kadaladi*) ; M. M. A. Razak (A.I.A.D.M.K.), (*Kadayanallur*) ; P. S. Thiruvengadam (D.M.K.), (*Kalasapakkam*) ; K. Balaji (A.I.A.D.M.K.), (*Kancheepuram*) ; M. Kannan (A.I.A.D.M.K.), (*Kandamagalam*) ; R. K. S. Dandapani (A.I.A.D.M.K.), (*Kangayam*) ; C. Krishnan (A.I.A.D.M.K.), (*Kanyakumari*) ; P. Kaliyappan (A.I.A.D.M.K.), (*Karaikudi*) ; K. Vadivel (A.I.A.D.M.K.), (*Karur*) ; M. A. Jayavelu (A.I.A.D.M.K.), (*Katpadi*) ; E. Ramalingam (D.M.K.), (*Kattumannarkoil—S.C.*) ; Dr. K. Samarasam (A.I.A.D.M.K.), (*Kaveripattinam*) ; P. Vijayaraghavan (J.P.), (*Killiyoor*) ; K. V. Kandasamy (A.I.A.D.M.K.), (*Kinathukadavu*) ; S. Alagarasamy (C.P.I.), (*Koilpatti*) ; K. R. Chinnarasu (A.I.A.D.M.K.), (*Krishnageri*) ; P. Soundara Pandian (A.I.A.D.M.K.), (*Krishnarayapuram—S.C.*) ; V. Chinnaiah (Cong.), (*Kulathur—S.C.*) ; P. E. Srinivasa Reddiar (Cong.), (*Kulithalai*) ; S. R. Eradha (A.I.A.D.M.K.) ; (*Kumbakonam*) ; M. Selvaraj (D.M.K.), (*Kurinjipadi*) ; R. Rajamanickam (D.M.K.), (*Kutalam*).

K. N. Shannugam (A.I.A.D.M.K.), (*Lalgudi*) ; N. Lakchminarayanan (A.I.A.D.M.K.), (*Madurai Central*) ; N. Sankariah (C.P.I.-M.), (*Madurai-E.*) ; T. P. M. Periaswamy (F.B.), (*Madurai-W.*) ; C. Arumugam (D.M.K.), (*Maduranthakam*) ; V. M. Subramaniam (A.I.A.D.M.K.), (*Manamadurai—S.C.*) ; M. Periasamy (A.I.A.D.M.K.), (*Mangalore—S.C.*) ; M. Ambikapathy (C.P.I.), (*Mannargudi*) ; K. K. Muthiah (Cong.), (*Marungapuri*) ; N. Kittappa (D.M.K.), (*Mayuram*) ; P. Thangavel Gounder (A.I.A.D.M.K.), (*Melmalayanur*) ; A. M. Paramasivan (A.I.A.D.M.K.), (*Melur*) ; K. P. Nachimuthu Gounder (A.I.A.D.M.K.), (*Mettur*) ; S. Palaniswami (A.I.A.D.M.K.), (*Metturpalayam*) ; Smt. Subbulakshmi (A.I.A.D.M.K.), (*Modakurichi*) ; N. Kuppusamy (A.I.A.D.M.K.), (*Morappur*) ; S. Balakrishnan (Cong.), (*Mudukulathur*) ; G. Raghothaman (A.I.A.D.M.K.), (*Muguiyur*) ; P. Musiriputhan (A.I.A.D.M.K.), (*Musiri*) ; T. K. Kapali (D.M.K.), (*Mylapore*).

R. Umanath (C.P.I.-M.), (*Nagapattinam*) ; M. Vincent (A.I.A.D.M.K.), (*Nagercoil*) ; R. Arunachalam (A.I.A.D.M.K.), (*Namakkal*) ; M. John Vincent (J.P.), (*Nanguneri*) ; M. Manimaran (D.M.K.), (*Nannilam—S.C.*) ; M. Andi Ambalam (Cong.), (*Natham*) ; T. Anbazhagan (A.I.A.D.M.K.), (*Natrampalli*) ; C. Govindarajan (C.P.I.-M.), (*Nellikuppam*) ; A. Baluchamy (A.I.A.D.M.K.), (*Nilakottai—S.C.*) ; A. P. Palaniappan (Cong.), (*Oddanchatram*) ; M. Sivaperumal (A.I.A.D.M.K.), (*Omalur*) ; B. Gopalan (A.I.A.D.M.K.), (*Ootacamund*) ; T. M . Thailappam (D.M.K.), (*Orathanad*) ; O. S. Veluchamy (Cong.), (*Ottapidaram—S.C.*).

A. Swamidas (J.P.), (*Padmanabhapuram*) ; B. M. Krishnan (A.I.A.D.M.K.), (*Palacode*) ; N. Palanivel (C.P.I.-M.), (*Palani—S.C.*) ; K. Manoharam (A.I.A.-D.M.K.), (*Palayamkottai*) ; P. G. Kittu (A.I.A.D.M.K.), (*Palladam*) ; Eakambara Reddy (Cong.), (*Pallipet*) ; N. Subbarayan (A.I.A.D.M.K.), (*Panamarathupatty*) ; S. Ramachandran (A.I.A.D.M.K.), (*Panruti*) ; R. V. Soundararajan (Cong.), (*Papanasam*) ; K. Ugrapandian (A.I.A.D.M.K.), (*Paramakudi*) ; T. S. Nallathampi (D.M.K.), (*Park Town*) ; A. R. Marimuthu (Cong.), (*Pattukottai*) ; K. Appunu Goundur (J.P.), (*Pennagaram*) ; S. V. Ramasamy (A.I.A.D.M.K.), (*Perambalur — S.C.*) ; S. Balan (D.M.K.), (*Perambur—S.C.*) ; P. Chandran (T.N.T.P.P.), (*Peranamallur*) ; I. Tamilarasan (A.I.-A.D.M.K.), (*Peranampet—S.C.*) ; M. R. Govendan (A.I.-A.D.M.K.), (*Peravurani*) ; K. Pannai Sethuraman (A.I.A.-D.M.K.), (*Periyakulam*) ; A. Natarajan (D.M.K.), (*Perur*) ; Dr. A. Ponnusamy (A.I.A.D.M.K.), (*Perundurai*) ; O. P. Somasundaram (A.I.A.D.M.K.), (*Pollachi*) ; K. J. Subramaniam (A.I.A.D.M.K.), (*Polur*) ; K. Nachimuthu (A.I.-A.D.M.K.), (*Pongalur*) ; S. M. Durairaj (A.I.A.D.M.K.), (*Ponneri—S.C.*) ; S. Ganesan (D.M.K.), (*Poompuhar*) ; D. Irajarathanam (D.M.K.), (*Poonamalle*) ; Rajakumar Vijayaraghunatha Tondaman (Cong.), (*Pudukottai*) ; K. Anbaghagan (D.M.K.), (*Purasawalkam*) ; Isarivelan (A.I.A.-D.M.K.), (*Radhakrishnan Nagar*) ; Y. S. M. Yusuff (A.I.A.-D.M.K.), (*Radhapuram*) ; K. Dhanushkodi (A.I.A.D.M.K.), (*Rajapalayam—S.C.*) ; T. Ramasamy (A.I.A.D.M.K.), (*Ramanathapuram*) ; Duraimurugan (D.M.K.), (*Ranipet*) ; P. Duraisamy (A.I.A.D.M.K.), (*Rasipuram*) ; M. Sundaram (Cong.), (*Rishivandiam*) ; P. Ponnurangam (D.M.K.), (*Royapuram*).

D. Purushothaman (D.M.K.), (*Saidapet*) ; S. V. Varadarajan (A.I.A.D.M.K.), (*Salem—I*) ; M. Arumugam (J.P.), (*Salem—II*) ; S. Selvaraj (A.I.A.D.M.K.), (*Samayanallur—S.C.*) ; S. Subbiah (D.M.K.), (*Sankaranaynarkoil—S.C.*) ; Durai Muthusamy (Cong.), (*Sankarapuram*) ; T. Dhanapal (A.I.A.D.M.K.), (*Sankari—S.C.*) ; R. Jebamani (J.P.), (*Sathankulam*) ; K. K. S. S. R. Ramachandran (A.I.A.D.M.K.), (*Sathur*) ; K. Sengottaian (A.I.A.D.M.K.), (*Sathyamangalam*) ; R. Muthiah (A.I.-A.D.M.K.), (*Sedapatti*) ; V. Chinnasamy (A.I.A.D.M.K.), (*Sendamangalam*) ; S. J. Ramasamy (A.I.A.D.M.K.), (*Sholinghur*) ; R. Venkedusamy (C.P.I.—M.), (*Singanallur*) ; K. Subravelu (D.M.K.), (*Sirkali—S.C.*) ; O. Subramaniam (Cong.), (*Sivaganga*) ; K. Ramasamy (J.P.), (*Sivakasi*) ; N. Krishnan (A.I.A.D.M.K.), (*Sriperumbudur*) ; R. Soundararajan (A.I.A.D.M.K.), (*Srirangam*) ; K. Sathu Selvaraj (A.I.A.D.M.K.), (*Srivaikuntam*) ; R. Thamaraikani (A.I.A.D.M.K.), (*Srivilliputhur*).

R. E. Chandran Jayapal (D.M.K.), (*T. Nagar*) ; [illegible] Raju (A.I.A.D.M.K.), (*Talavasal—S.C.*) ; [illegible] (A.I.A.D.M.K.), (*Tambaram*) ; R. Narayanan (Cong.), (*Taramangalam*) ; S. Muthuswamy Karayalar (Cong.), (*Tenkasi*) ; D. R. Rajaram Naidu (Cong.), (*Th[illegible]*) ; D. Venugopal (D.M.K.), (*Thandarambattu*) ; S. Natarajan (D.M.K.), (*Thanjavur*) ; V. R. Ja[illegible] (A.I.A.D.M.K.), (*Theni*) ; Selvi P. T. Sara[illegible] (A.I.A.D.M.K.), (*Thirumangalam*) ; N. Sundararaj (Cong.), (*Thirumayam*) ; K. S. Murugesan (D.M.K.), (*Thiruverambur*) ; Durai Govindarajan (A.I.A.D.M.K.), (*Thiruvonam*) ; K. Maruthachalam (A.I.A.D.M.K.), (*T[illegible]mathur*); K. P. Kathamuthu (A.I.A.D.M.K.), (*T[illegible]*) ; S. J. Sadiq Pasha (D.M.K.), (*Thousand Lights*) ; T. [illegible] Erajaram Reddy (Cong.), (*Tindivanam*) ; R. Anantharaj (A.I.A.D.M.K.), (*Tiruchendur*) ; C. Ponnaiyan (A.I.-A.D.M.K.), (*Tiruchengode*) ; C. Manickam (A.I.A.-D.M.K.), (*Tiruchirapally—I*) ; K. Soundararajan (A.I.-A.D.M.K.), (*Tiruchirapally—II*); L. Arumugam (A.I.A.-D.M.K.), (*Tirunavalur*) ; G. R. Edmund (A.I.A.D.M.K.), (*Tirunelveli*) ; B. Sundaram (D.M.K.), (*Tirupattur*) ; K. Kalimuthu (A.I.A.D.M.K.), (*Tirupparankundram*) ; G. Chokkalingam (D.M.K.), (*Tirupporur—S.C.*) ; S. K. Shanmugam (C.P.I.), (*Tiruppattur*) ; R. Manimaran (A.I.A.D.M.K.), (*Tiruppur*) ; P. Uthirapathy (C.P.I.), (*Tiruthurai-Poondi–S.C.*); R. Shanmugam (A.I.A.D.M.K.), (*Tiruttani*); Kr. Rm. Kariamanickam Ambalam (Cong.), (*Tiruvadanai*) ; S. Pattabhiraman (A.I.A.D.M.K.), (*Tiruvallur*) ; P. U. Shanmugam (D.M.K.), (*Tiruvannamalai*) ; Thozai M. Karunandhi (D.M.K.), (*Tiruvarur*) ; J. James (J.P.), (*Tiruvattur*) ; S. Ramalingam (D.M.K.), (*Tiruvidamarudur*) ; P. Sigamoni (A.I.A.D.M.K.), (*Tiruvottiyur*) ; M. Aranganathan (D.M.K.), (*Triplicane*) ; N. Dhanasekaran (A.I.A.D.M.K.), (*Tuticorin*).

P. Kolandaivelu (A.I.A.D.M.K.), (*Udumalpet*) ; V. Thulukannam (D.M.K.), (*Ulundurpet—S.C.*) ; R. Periyasamy (Cong.), (*Uppiliapuram*) ; P. K. Mookkiah Thevar (F.B.), (*Usilampatti*) ; S. Pakkur Subramanyam (A.I.-A.D.M.K.), (*Uthiramerur*).

A. Chellappa (D.M.K.), (*Valangiman—S.C.*) ; R. S. Thangavel (A.I.A.D.M.K.), (*Valaparai—S.C.*) ; M. Abdul Latif (M.L.), (*Vaniyambadi*) ; M. Paranasivam (D.M.K.), (*Vanur—S.C.*) ; N. Perumal (A.I.A.D.M.K.), *Varahur—(S.C.)* ; R. Krishnan (C.P.I.-M.), (*Vasudevanallur*) ; M. Meenakshisundaram (D.M.K.), (*Vedaranyam*) ; S. M. Vasan (A.I.A.D.M.K.), (*Vedasandur*) ; P. Venga Goundur (A.I.A.D.M.K.), (*Veerapandi*) ; D. Ramasamy (Cong.), (*Vellakoil*) ; A. K. Ranganathan (A.I.A.D.M.K.), (*Vellore*) ; R. K. Perumal (A.I.A.D.M.K.), (*Vilathikulam*) ; D. Gnanasigamony (C.P.I.-M.), (*Vilavancode*) ; K. Suppu (D.M.K.), (*Villivakkam*) ; P. Krishnan (A.I.A.D.M.K.), (*Villupuram*); M. Sundararajan (A.I.A.D.M.K.), (*Virudhunagar*) ; C. Ramanathan (A.I.A.D.M.K.), (*Vridhachalam*).

P. Munusamy (A.I.A.D.M.K.), (*Wandiwash—S.C.*).

R. Kaliappan (A.I.A.D.M.K.), (*Yercaud*) ; Smt. Margaret Elisabeth Felix (*Nominated*).

TAMIL NADU LEGISLATIVE COUNCIL

Chairman M. P. Sivagnanam.

Deputy Chairman : G. Swaminathan.

Secretary : C. K. Ramaswamy.

An estimate of party position in the Council is as follows: All India Anna Dravida Munnetra Kazhagam 14 ; Dravida Munnetra Kazhagam 13 ; Congress 4 ; Teachers-Graduates Progressive Front 3 ; United Party 2 ; Indian Union Muslim League 2 ; Janata 1 ; Communist Party of India 1 ; Communist Party of India (Marxist) 1 ; Independents 5 ; Chairman 1 ; Vacant 16 ; Total 63 ; Women 3.

Local Authorities Constituency (21) : Vacant (*Chi[illegible]*) ; Vacant (*Coimbatore-Nilgiris*) ; Vacant (*Ka[illegible]*) ; Vacant (*Madras*) ; Vacant (*Coimbatore Nilgiris*) ; V[illegible] (*Madurai*) ; Vacant (*Madurai*) ; Vacant (*North [illegible]*) ; Vacant (*North Arcot*) ; S. [illegible] (*Ramanathapuram*) ; V. Thangapandian (D.M.K.), [illegible] A. [illegible] (*[illegible] Dharmapuri*) ; V. R. Periannan (D.M.K.), (*Salem-[illegible] puri*) ; Vacant (*South Arcot*) ; Vacant (*South [illegible]*) ; K. S. Mani (D.M.K.), (*Thanjavur*) ; N. Sundaresa Th[illegible]

(Cong.), (*Thanjavur*) ; Vacant (*Tiruchirapalli*) ; Vacant (*Tiruchirapalli*); Vacant (*Tirunelveli*); Vacant (*Tirunelveli*).

Legislative Assembly Constituency (21) : K. S. Abdul Wahab (I.U.M.L.) ; S. Arumugam (D.M.K.) ; D. V. D'Monte (J.P.) ; A. Dravida Mani (D.M.K.) ; Ilamparithi (D.M.K.) ; K. A. Krishnaswamy (Minister-A.I.A.D.M.K.) ; P. Manickam (C.P.I.) ; J. M. Miakhan (I.U.M.L.) ; A. Nallasivan (C.P.I.-M.) ; K. Narayanaswamy Mudaliar (Minister-A.I.A.D.M.K.) ; Neela Narayanan (D.M.K.) ; V. R. Periannan (D.M.K.) ; S. Raghavanandam (Minister-A.I.A.D.M.K.) ; K. Raja Mohamed (Minister-A.I.A.-D.M.K.) ; C. Ramalingam (A.I.A.D.M.K.) ; K. Ramamoorthy (Cong.) ; C. Tamizharasi (D.M.K.) ; A. Thangavel (D.M.K.) ; R. M. Veerappan (Minister-A.I.A.-D.M.K.) ; Arcot N. Veerasamy (D.M.K.) ; P. Yellamandah (D.M.K.) ; Vacant 1.

Graduates' Constituency : (6) : G. Vasantha Pai (Ind.), (*Madras District*) ; G. Swaminathan (Ind.), (*Tamil Nadu East Central ;* A. R. Damodaran (U.P.), (*Tamil Nadu North*) ; Dr. H. V. Hande (A.I.A.D.M.K.), (*Madras District*) ; D. Santosham (T.G.P.F.), (*Tamil Nadu South*) ; G. R. Damodaran (UP), (*Tamil Nadu West Central*).

Teachers' Constituency : (6) : K. Arivazhagan (A.I.A.-D.M.K.), (*Madras-Chingleput*) ; P. R. Thomas (T.G.P.F.), (*Madurai-Ramanathapuram*) ; C. R. Lakshmikantham (T.G.P.F.), (*North Arcot-South Arcot*) ; S. Muthusamy (Ind.), (*Salem-Dharmapuri-Coimbatore-Nilgiris*) ; K. Meenakshisundaram (Ind.), (*Thanjavur-Tiruchirapalli-Pudukkottai*) ; M. Sankaralinagam (D.M.K.), (*Tirunelveli-Kanyakumari*).

Nominated : (9) : Ku. Ma. Balasubramaniam (D.M.K.) ; Mandakini Krishnamoorthy (Ind.) ; H. L. Murugesan (A.I.A.D.M.K.) ; Pulavar Pulamai Pithan (A.I.A.D.M.K.); Rathina Balaguruswamy (A.I.A.D.M.K.) ; Sithadevi Krishnasamy P. (A.I.A.D.M.K.) ; M. P. Sivagnanam ; E. S. Venkatesan (A.I.A.D.M.K.); A. K. Vilwam (A.I.A.D.M.K.).

TRIPURA LEGISLATIVE ASSEMBLY

Speaker : Sudhanwa Deb Barma.

Deputy Speaker : Jyotirmoy Das.

Seats : 60 ; *Electorate :* 961,998.

Party position : C.P.I.-M. : 51 ; Tripura Upajati Juba Samity : 4 ; R.S.P. : 2 ; Forward Block : 1 ; Independent 2. Woman Member : 1.

Ajoy Biswas (Ind.), (*Agartala*) ; Nagendra Jamatia (T.U.J.S.), (*Ampinagar—S.T.*) ; B. C. Deb Barma (C.P.I.-M.), (*Asharambari—S.T.*) ; Jadab Majumdar (C.P.I.-M.), (*Badharghat*) ; Ratimohan Jamatia (T.U.J.S.), (*Bagma—S.T.*) ; Hari Charan Sarkar (C.P.I.-M.), (*Bamutia—S.C.*) ; Bibekananda Bhowmik (C.P.I.-M.), (*Banamalipur*) ; Smt. Gauri Bhattacharjee (C.P.I.-M.), (*Barjala*) ; Jyotirmoy Das (C.P.I.-M.), (*Belonia*) ; Syamal Saha (C.P.I.-M.), (*Birganj*) ; Gautam Prasad Dutta (C.P.I.-M.), (*Bishalgarh*) ; Araber Rahaman (C.P.I.-M.), (*Boranagar*) ; Baidyanath Majumdar (C.P.I.-M.), (*Chandipur*) ; Harinath Deb Barma (T.U.J.S.), (*Charailam*) ; Purna Mohan Tripura (C.P.I.-M.), (*Chawmanu—S.T.*) ; Samar Choudhury (C.P.I.-M.), (*Dhanpur*) ; Amarendra Sharma (Ind.), (*Dharmanagar*) ; Tarani Mohan Sinha (C.P.I.-M.), (*Fatikray*) ; Niranjan Deb Barma (C.P.I.-M.), (*Golaghati*) ; Badal Choudhury (C.P.I.-M.), (*Hrishyamukh*).

Brajamohan Jamatia (C.P.I.-M.), (*Jolaibari—S.T.*) ; Ramkumar Nath (C.P.I.-M.), (*Jubarajnagar*) ; Umeshchandra Nath (C.P.I.-M.), (*Kadamtala*) ; Tapankumar Chakraborty (C.P.I.-M.), (*Kailashar*) ; Keshabchandra Majumder (C.P.I.-M.), (*Kakraban*) ; Mohanlal Chakraborty (C.P.I.-M.), (*Kalyanpur*) ; Malilal Sarker (C.P.I.-M.). (*Kamalasagar*) ; Bimal Singha (C.P.I.-M.), (*Kamalpur*) ; Mandida Riyan (C.P.I.-M.), (*Kanchanpur*) ; Akhil Debnath (C.P.I.-M.), (*Khayerpur*) ; S. K. Thakur Singha (C.P.I.-M.), (*Khowai*) ; Manindra Deb Barma (C.P.I.-M.), (*Krishnapur—S.T.*) ; Kaminideb Barma (C.P.I.-M.), (*Kulai—S.T.*) ; Fayzur Rahaman (C.P.I.-M.), (*Kurti*) ; Khagen Das (C.P.I.-M.), (*Majlishpur*) ; Rashiram Deb Barma (C.P.I.-M.), (*Mandaibazar—S.T.*) ; Mathari Choudhury (C.P.I.-M.), (*Manu—S.T.*) ; Nareshchandra Ghosh (C.P.I.-M.), (*Matarbari*) ; Radharaman Deb Nath (C.P.I.-M.), (*Mohanpur*) ; Sumanta Kumar Das (C.P.I.-M.), (*Nalchar—S.C.*).

Bindubhushan Malakar (C.P.I.-M.), (*Pabiachhara—S.C.*) ; Mohanlal Chakma (C.P.I.-M.), (*Pacharthal—S.T.*) ; Subodh Chandra Das (C.P.I.-M.), (*Panisagar*) ; Nripon Chakraborty (C.P.I.-M.), (*Pramodnagar*) ; Anil Sarkar (C.P.I.-M.), (*Pratapgarh—S.C.*) ; Jogesh Chakraborty (R.S.P.), (*Radhakishorepur*) ; Baju Ban Riyan (C.P.I.-M.), (*Raima Valley—S.T.*) ; Nakul Das (C.P.I.-M.), (*Rajnagar—S.C.*) ; Dasaratha Deb (C.P.I.-M.), (*Ramchandraghat—S.T.*) ; Biren Datta (C.P.I.-M.), (*Ramnagar*) ; Sunil Kumar Choudhury (C.P.I.-M.), (*Sabroom*) ; Gopalchandra Das (R.S.P.), (*Salgarh—S.C.*) ; Dinesh Deb Barma (C.P.I.-M.), (*Saloma—S.T.*) ; Drao Kumar Reang (T.U.J.S.), (*Santir Bazar*) ; Abhiram Deb Barma (C.P.I.-M.), (*Simna—S.T.*) ; Subal Rudra (C.P.I.-M.), (*Sonamura*) ; Rudreswar Das (C.P.I.-M.), (*Surma—S.C.*) ; Sudhanwa Deb Barma (C.P.I.-M.), (*Takarjala—S.T.*); Jitendra Sarker (C.P.I.-M.). (*Toliamura*) ; Braja Gopal Roy (F.B.), (*Town Bordowali*).

UTTAR PRADESH VIDHAN SABHA

Speaker : Banarsi Das.

Dy. Speaker : Vacant.

Seats : 426. *Party Position :* Janata Party : 358 ; Cong.-I.: 40 ; Cong. : 8 ; Communist Party : 9 ; Communist (Marxist) Party : 8 ; Independents : 8 ; Vacant : 3. Women Members : 10 ; Nominated : 1 ; Scheduled Caste Members : 89.

Mufti Jalil Ahmed (J.P.), (*Afzalgar*) ; Gajendra Singh (J.P.), (*Agouta*) ; Dr. Krishnavir Singh Kousal (Cong.-I.), (*Agra Cantt.*) ; Surendrakumar Kalra (Cong.-I.), (*Agra East*) ; Gulab Sehra (Cong.-I.), (*Agra West—S.C.*) ; Manni Lal (Cong.-I.), (*Ahirouri—S.C.*) ; Gauri Shankar (J.P.), (*Ajitmal—S.C.*) ; H. R. Verma (J.P.), (*Akbarpur*) ; Gondalal Gupta (J.P.), (*Aliganj*) ; Dr. Mouzij Ali Beg (J.P.), (*Aligarh*) ; Baba R. A. Yadav (J.P.), (*Allahabad North*) ; S. P. Malaviya (J.P.), (*Allahabad South*) ; Habib Ahmed (J.P.), (*Allahabad West*) ; Shobhan Singh Jeena (J.P.), (*Almora*) ; Haricharan Yadav (J.P.), (*Amethi*); Lilavath Singh (J.P.), (*Amroha*) ; Beni Prasad Madhav (J.P.), (*Anupasahar*) ; S. B. Singh (J.P.), (*Aonla*) ; Babu Badre (J.P.), (*Aryanagar*) ; Kalyan Singh (J.P.), (*Atrauli*); Durga Vijay Sinh (Cong.-I.), (*Atraulia*) ; Bechu Ram (J.P.), (*Aurai*) ; Bharat Singh Chouhan (J.P.), (*Auraiya*) ; Jaya Shankar Pandey (J.P.), (*Ayodhya*) ; Bhima Prasad (Cong.), (*Azamgarh*) ; Dev Kumar (C.P.I.), (*Baberu*) ;) Ram Dulare (Cong.-I.), (*Bachrawan—S.C.*) ; Krishna Swarup (J.P.), (*Badayum*) ; Puran Chandra (J.P.), (*Bageshwar — S.C.*) ; Ismail (J.P.), (*Boghpat*) ; Babu Singh (J.P.), (*Baghra*) ; Raja Mahendra Ripudaman Singh (JP.), (*Bah*) ; Rafiq Ahmed Khan (Cong.), (*Baheri*) ; Sultan Singh (J.P.), (*Bahjoyi*) ; Khan Mohd. Aatif Khan (J.P.), (*Bahraich*) ; Shambhunath Choudhary (J.P.), (*Ballia*) ; Asfak (J.P.), (*Balrampur*) ; Jamuna Prasad (J.P.), (*Banda*); Jagdish Prasad Trivedi (J.P.), (*Bangermau*) ; Babu Lal Vidyarthi (J.P.), (*Bansgaon—S.C.*) ; Bachha Pathak (Cong.-I.), (*Bansdih*) ; Harish Chandra (J.P.), (*Bansi*) ; Guru Prasad (J.P.), (*Bara*) ; Sangram Singh (J.P.), (*Barauli*), Asfak Ahmed (Cong.-I.), (*Bareilly Cantt.*) ; Satya Prakash (J.P.), (*Bareilly City*) ; Mohan Singh (J.P.), (*Barhaj*) ; Kisan Lal (J.P.), (*Barkhera—S.C.*) ; Dharma Veer Singh (J.P.), (*Barnawa*) ; Ram Krishna (Cong.-I.), (*Barsathi*) ; Jagadamba Prasad Singh (J.P.), (*Basti*) ; Puran Lal (Cong.-I.), (*Bawan—S.C.*) ; Chandra Sen Sinh (Cong.), (*Bayalasi*); Mukhtar Anis (J.P.), (*Behta*) ; Behari Lal Hamsa (Cong.-I.), (*Beniganj—S.C.*) ; Mithayi Lal (J.P.), (*Bhadohi—S.C.*) ; Devaki Nandan (J.P.), (*Bhagwantnagar*) ; Mahendra Singh Yadav (J.P.), (*Bharthana*) ; R. M. Tiwari (J.P.), (*Bhatpar Rani*) ; Dr. Bhagwat Dayal (J.P.), (*Bhavina—S.C.*) ; Kamala Prasad Verma (J.P.), (*Bhinga*) ; Mousilal Kureel (J.P.), (*Bhoganipur—S.C.*) ; Hamid Rasak Khan (Ind.), (*Bhojipura*) ; H. R. Shakhya (J.P.), (*Bhongaon*) ; Ousan Singh (J.P.), (*Bidhuna*) ; Babu Lal Saroj (J.P.), (*Bihar—S.C.*) ; Kumwar Satyavir (J.P.), (*Bijnor*) ; Shriram Dwivedi (J.P.), (*Bikapur*) ; Sarada Bakta Singh (J.P.), (*Bilgram*) ; Motilal Dehlavi (J.P.), (*Bilhaur—S.C.*) ; Sohan Lal (J.P.), (*Bilaspur*) ; Sohanlal Pippal (J.P.), (*Bilsi—S.C.*) ; Ali Ahmed Hussain (J.P.), (*Binawar*) ; Jagannath Sinh (J.P.), (*Bindki*) ; Kamdev Dube (J.P.), (*Birapur*) ; Munendra Pal Singh (J.P.), (*Bisalpur*) ; Braj Ballabh (Ind.), (*Bisauli*) ; Gaya Prasad Mehrotra (J.P.), (*Biswa*) ; Vijay Raj Singh (J.P.), (*Bulandshahr*).

Om Prakash (J.P.), (*Captainganj*) ; Shyam Dev (J.P.), (*Chakia—S.C.*) ; Suravir Singh (J.P.), (*Chakrata—S.C.*) ; Uday Prasad Singh (J.P.), (*Chanda*) ; Ram Pyare (J.P.), (*Chandauli*) ; Karan Singh (J.P.), (*Chandausi—S.C.*) ; Dharma Veer Singh (J.P.), (*Chandpur*) ; Purushottam Das (Cong.-I.), (*Chanve—S.C.*) ; Narendra Singh (J.P.), (*Chaprauli*) ; Gajadhar Prasad (J.P.), (*Charda—S.C.*) ; Mohan Lal (Cong.), (*Charkhari—S.C.*) ; Nand Ram (J.P.), (*Charthwal—S.C.*) ; Lakhi Singh (J.P.), (*Chhatha*) ; H. K. Shrivastav (J.P.), (*Chaubepur*) ; Kanaiyalal Sonkar (J.P.), *Chayal—S.C.*); V. G. Chobe (J.P.), (*Chibramau*); Ram Govind (J.P.), (*Chilkahar*) ; Kalpnath Singh (J.P.), (*Chillupar*) ; Uday Nath (J.P.), (*Chiraigaon*) ; Om Prakash Sinh (J.P.), (*Chunar*) ; Triveni Singh (J.P.), (*Colonelganj*) ; Avanish Kumar Singh (J.P.), (*Dadaganj*) ; Mansur Ali (Ind.), (*Dadraul*) ; Tej Singh (J.P.), (*Dadri*) ; Manu Lal Dwivedi (Cong.-I.), (*Dalmau*) ; Asrafi Lal Yadav (J.P.), (*Daryabad*) ; S. D. Paliwal (J.P.), (*Dayalbagh*) ; Himmat Singh (J.P.), (*Debai*) ; Mohd. Usman (J.P.), (*Deoband*) ; Krishna Rai (J.P.), (*Deoria*) ; Bhagwan Deen Kushavaha (J.P.), (*Derapur*) ; Indramani Badoni (J.P.), (*Devprayag*) ; Haripal Sinh Shastri (J.P.), (*Dhampur*) ; Kailash Nath Singh (J.P.), (*Dhanapur*) ; Jagannath Prasad (Ind.), (*Dhaurehra*); Jagdish Prasad (J.P.), (*Dhuriapur*) ; Narayan Singh Bhaisora (J.P.), (*Didihat*) ; Avadesh Narayan (J.P.), (*Dildarnagar*) ; Rampati (J.P.), (*Dixir—S.C.*) ; Malik Md. Kamal Yusuf (J.P.), (*Domariaganj*) ; Manager Singh (J.P.), (*Doraba*) ; Ishwar Prasad (J.P.), (*Dudhi—S.C.*) ; Chandra Bhan Mourya (J.P.), (*Etmadhpur—S.C.*) ; Ganga Prasad (J.P.), (*Etah*) ; Vacant (*Faizabad*) ; Smt. Sakuntala Nair (J.P.), (*Fakkarpur*) ; Shyam Narayan Tiwari (C.P.I.), (*Farenda*) ; Siaram Sagar (J.P.), (*Faridpur—S.C.*) ; Brahma Datta Dwivedi (J.P.), (*Farukhabad*) ; H. S. Parihar (J.P.), (*Fatehabad*) ; Khan Gahufran Jahidi (J.P.), (*Fatehpur*) ; Nanheilal Kureel (J.P.), (*Fatehpur—S.C.*) ; Badan Singh (J.P.), (*Fatehpur-Sikri*) ; R. N. Pandey (J.P.), (*Fazilnagar*) ; Raghu Bar Dayal Verma (J.P.), (*Firozabad*) ; Bindu Lal (J.P.), (*Gaisari*) ; Baldev (J.P.), (*Gangapur*) ; Hardev Singh (J.P.), (*Gangeshwari—S.C.*) ; Babu Singh (J.P.), (*Gangiri*) ; Ranjit [illegible] Judhev (Cong.), (*Garautha*) ; Sakhawat Hussain [illegible] (*Garmukteshwar*) ; Vidya Shankar (J.P.) ; (*Garwar*[illegible] Veerendra Chaturvedi (J.P.), (*Gauri Bazar*) ; Tej [illegible] Singh (J.P.), (*Gauriganj*) ; R. R. Rastongi (J.P.), (*Ge*[illegible] *Ganj*) ; Ram Shiroman (Cong.), (*Ghandeara*) ; [illegible] Agnihotri (J.P.), (*Ghatampur*) ; Rajendra (J.P.), (*Ghaziabad*) ; Md. Khalilullah Kureshi (J.P.), (*Ghazipur*) ; V. [illegible] Yadav (J.P.), (*Ghiror*) ; Vikrama Rai (J.P.), (*G*[illegible] Shyamdhar Mishra (Cong.), (*Gnanpur*) ; Omkar [illegible] (J.P.), (*Gokul*) ; Fajlulwari alias [illegible] (J.P.), (*Gonda*) ; Ram Adhar (J.P.), (*Gopalpur*) ; Avadesh K[illegible] Shrivastav (J.P.), (*Gorakhpur*) ; Vikram Rai (J.P.), (*G*[illegible] Gnanendra Swarup (J.P.), (*Goverdhan — S.C.*) ; D[illegible] Bajpayee (J.P.), (*Govindnagar*) ; Vacant (*G*[illegible]) ; S. D. Mishra (Cong.), (*Gyanpuri*).

Hem Raj (J.P.), (*Hadha*) ; Bhishma (J.P.), (*Hai*[illegible] *Bazar*—(*S.C.*) ; Dev Bahadur Singh (Cong.), (*Ha*[illegible]) ; Omkarnath (J.P.), (*Hamirpur*); Atai Ram (J.P.), (*H*[illegible] Banarasi Das Chandra (J.P.), (*Hapur—S.C.*) ; Sukhpa[illegible] Pandey (J.P.), (*Haraiya*) ; Dharma Raj Singh (Cong.-I.), (*Hardoi*) ; Raj Kumar Sharma (.J.P.), (*Hardwar*) ; Gokaran Prasad (J.P.), (*Hargaon—S.C.*) ; Smt. Bi[illegible] Rakesh (J.P.), (*Harora—S.C.*) ; Chandra Pal (J.P.), (*Hasanganj—S.C.*) ; Remashankar Koushik (J.P.), (*Hasanpur*), R. S. Mourya (J.P.), (*Hastinapur—S.C.*) ; Umakant Bajpayee (J.P.), (*Hasura*) ; Basant (J.P.), (*Hata—S.C.*) ; Kumbar R. S. Singh (J.P.), (*Hathras*) ; Raghav Ram Mishra (J.P.), (*Hyderabad*) ; Sundar Lal Dikshit (Ind.), (*Hydergarh*) ; Rajendra Singh (J.P.), (*Iglas*) ; Bisun Dayal (J.P.), (*Ikauna—S.C.*) ; Ram Baran Verma (J.P.), (*Issauli*) ; Satydev Tripathi (J.P.), (*Itaun*[illegible]) ; Vishwanath Pandey (J.P.), (*Itwa*) ; R. F. Koree (J.P.), (*Jagdishpur—S.C.*) ; Kasim Hasan (J.P.), (*Jaha*[illegible]) ; Smt. Ram Rati Devi (J.P.), (*Jahangirganj—S.C.*) ; Jayaram (C.P.I.), (*Jahurabad*) ; Makbul Husain Khan (J.P.), (*Jaisingpur*) ; Dev Ram (J.P.), (*Jakhania—S.C.*) ; Kanaih Singh (J.P.), (*Jalalabad*) ; Bhagawati Prasad Sinh (C.P.I.-M.), (*Jalalpur*) ; Madhav (J.P.), (*Jales*[illegible]—*S.C.*) ; Dharam Ram (J.P.) , (*Jamania*) ; Kabul Singh (J.P.), (*Janat—S.C.*) ; Balveer Singh (J.P.), (*Ja*[illegible]) ; Mulayam Singh Yadav (J.P.), (*Jaswantnagar*) ; Kamal Prasad Singh (Cong.-I.), (*Jaunpur*) ; Edal Singh (J.P.), (*Jewar—S.C.*) ; Smt. Suryamukhi Sharma (J.P.), (*Jhansi*) ; Kesari Nath Tripathy (J.P.), (*Jhusi*) ; Bu[illegible] Lal (J.P.), (*Kadipur—S.C.*) ; Basheer Ahmed (J.P.), (*Kairana*) ; Babu Lal Verma (J.P.), (*K*[illegible]) ; Sa[illegible] Singh (J.P.), (*Kalpi*) ; Smt. Pushpa Talwar (J.P.), (*K*[illegible]*pur*) ; Anwar Ahmed (J.P.), (*Kamalganj*) ; Ajab Singh (J.P.), (*Kandhla*) ; Jhamlal Aherwar (J.P.), (*K*[illegible]—*S.C.*) ; Babu Ram Shukla (J.P.), (*Kanpur Cantt.*) ; Har Govind Singh (J.P.), (*Kant*) ; R. R. Singh (J.P.), (*K*[illegible]*na*) ; Nathu Singh (J.P.), (*Karhal*) ; Shivanand Nautiya[illegible] (J.P.), (*Karnaprayag*) ; Ram Sanjivan (C.P.I.), (*Kar*[illegible]) ; Netram Singh (J.P.), (*Kasganj*) ; Narayan Datt Tiwa[illegible] (Cong.-I), (*Kashipur*) ; Raj Mangal Pandey (J.P.), (*Kasya*) ; Deep Narayan (J.P.), (*Katra Bazar*) ; [illegible]nath Tiwari (J.P.), (*Khatehari*) ; Ravinder Singh (J.P.), (*Kauriram*) ; Acharya D. T. Vaidya (Cong.), (*K*[illegible]) ; Girish Chandra Tiwari (J.P.), (*Kayamganj*) ; Sha[illegible] Nath (J.P.), (*Kerakat—S.C.*) ; Chote Lal (J.P.), (*K*[illegible]) ; Pyare Lal (J.P.), (*Khair*) ; Guru Dutt Solanki (J.P.), (*Khairagarh*) ; Ram Aasre (J.P.), (*K*[illegible]—*S.C.*) ; Abdul Halim Khan (J.P.), (*Kharkhauda*) ; [illegible] Singh (J.P.), (*Khatauli*); Shrichand (J.P.), (*K*[illegible]) ; Chajju Singh (J.P.), (*Khekra*) ; Diwakar Vikram [illegible] (J.P.), (*Khesraha*) ; Banarsi Dass (J.P.), (*Khurj*[illegible]) ; L. [illegible] Yadav (Cong.), (*Khuthan*) ; Hakim Lal (J.P.), (*K*[illegible]—*S.C.*) ; Jageshwar (J.P.), (*Kishunpur—S.C.*) ; Ram Daya[illegible] (Cong.), (*Kithore*) ; Kishan Lal Diler (J.P.), (*K*[illegible]

Oodal (C.P.I.), (*Kolaslah*) ; Kaushal Kishore (J.P.), (*Konch—S.C.*) ; Gauri Shankar Bhaiya (J.P.), (*Kopachit*); Smt. Shashi Prabha (J.P.), (*Kunda*) ; Akbar Hussain (J.P.), (*Kunderki*).

Abid Ali (J.P.), (*Laharpur*) ; Bharat Singh (J.P.), (*Lainsadaun*) ; Ram Lakhan (J.P.), (*Lakhna—S.C.*) ; Kaji Mohd. Mohiuddin (J.P.), (*Laksav*) ; Naresh Chandra (J.P.), (*Lakhimpur*) ; Abdul Rauf Lari (J.P.), (*Lakshmipur*) ; Isdatt Yadhav (J.P.), (*Lalganj*) ; S. P. Goswami (J.P.), (*Lalitpur*) ; Krishna Kant Mishra (J.P.), (*Lucknow Cantt.*) ; Vacant (*Lucknow*-I) ; Ram Prakash (J.P.), (*Lucknow Centre*) ; Smt. Swarup Kumari Buxi (Cong.-I.), (*Lucknow East*) ; Dr. P. Bora (J.P.), (*Lucknow West*) ; Lal Das (J.P.), (*Machrehata—S.C.*) ; Arun Kumar (Cong.-I.), (*Machhlishahr*) ; Krishnakumar Palial (J.P.), (*Madhogarh*) ; Dukhi Prasad (J.P.), (*Maharajganj—S.C.*) ; Ramnarayan Verma (J.P.), (*Mahmudabad*) ; Udit Narayan Sharma (J.P.), (*Mahoba*) ; Bhagvati Singh (J.P.), (*Mahona*) ; Ranveer Singh (J.P.), (*Mahroni*) ; Sukhadraj Singh (J.P.), (*Mahsi*) ; Malikhan Singh (J.P.), (*Mainpuri*) ; Sivadas (J.P.), (*Majhwa*) ; Man Singh Azad (J.P.), (*Malihabad—S.C.*) ; Ram Asrey (Ind.), (*Mallawan*) ; Ramesh Chandra (J.P.), (*Manikapur—S.C.*) ; Avaidyanath (J.P.), (*Maniram*) ; Nathu Ram Shikshak (J.P.), (*Manjanpur—S.C.*) ; Chedilal (Cong.-I.), (*Mankapur—S.C.*) ; Radhe Shyam (J.P.), (*Manth*) ; R. K. Tiwari (Cong.-I.), (*Mariahun*) ; Beni Prasad Verma (J.P.), (*Masauli*) ; Kanaihalal Gupta (J.P.), (*Mathura*) ; Ramji (J.P.), (*Mau*) ; Lakshmi Narayan (J.P.), (*Maudaha*) ; Prem Narayan Ahervar (J.P.), (*Mauranipur—S.C.*) ; Ajit Singh (Cong.-I.), (*Meerut Cantt.*) ; Manzur Ahmed (Cong.-I.), (*Meerut*) ; Chandra Sekhar Singh (J.P.), (*Mehdawal*) ; Budhu Ram (J.P.), (*Mehnagar—S.C.*) ; Dr. Jawahar Lal (J.P.), (*Meja—S.C.*) ; Mitra Sen (C.P.I.), (*Milkipur*) ; Rajanath Singh (J.P.), (*Mirzapur*) ; Ram Ratan Singh (Cong.-I.), (*Misrikh*) ; Sohan Vir Singh Thomar (J.P.), (*Modinagar*) ; Ganji Prasad (J.P.), (*Moghulsarai*) ; Rajendra Singh Yadav (Cong.), (*Mohamadabad*) ; Ram Janam Rai (J.P.), (*Mohammedabad*) ; Shiv Prasad (J.P.), (*Mohammedabad Gohana—S.C.*) ; Manna Lal (J.P.), (*Mohammedi—S.C.*) ; Satya Bux Rawth (J.P.), (*Mohanlalganj—S.C.*) ; D.C. Rastongi (J.P.), (*Moradabad*) ; Riyasat Hussain (Ind.), (*Moradabad-Rural*) ; Khyali Ram Sashtri (J.P.), (*Moradabad West*) ; Narayan Singh (J.P.), (*Morna*) ; Bhabhi (J.P.), (*Mubarakapur*) ; Vishnu Pratap Singh (J.P.), (*Mujehana*) ; Smt. Sharda Devi (J:P.), (*Mundera Bazar—S.C.*) ; Anwar Ahmed Chaudhari (J.P.), (*Muradnagar*) ; Ranjit Singh (J.P.), (*Mussoori*) ; Haji Shamshad Ahmed (J.P.), (*Muzaffarabad*) ; Smt. Malati Sharma (J.P.), (*Muzaffarnagar*) ; Ram Singh (J.P.), (*Nagal—S.C.*) ; Giridhari Lal (J.P.), (*Nagar-East—S.C.*) ; Mangal Ram Premi (J.P.), (*Nagina—S.C.*) ; Ram Dutt Joshi (J.P.), (*Nainital*) ; Mukandi Singh (J.P.), (*Najibabad—S.C.*) ; Yeshpal Singh (Cong.-I.), (*Nakur*) ; Fajlurahman Ansari (C.P.I.), (*Nanpara*) ; Surendra Pal (C.P.I.), (*Naraini*) ; Jagdish (J.P.), (*Nathupur*) ; Mathura Prasad Pandey (Cong.), (*Naugarh*) ; Muzafar Hassan (J.P.), (*Nawabganj*)* ; Mohd. Shamim Ansari (J.P.), (*Nawabganj*) †; Chetram Gangwar (Cong.-I.), (*Nawabganj*); Ram Naresh Yadhav (J.P.), (*Nidhaulikalan*); Ram Charan Shah (J.P.), (*Nighasan*) ; Jagdish Singh (Cong.-I.), (*Nigohi*) ; Md. Masood Khan (J.P.), (*Nizamabad*) ; Shrinarayan (J.P.), (*Nourangia—S.C.*).

Purushottam Koushik (J.P.), (*Padrauna*) ; Nanga Ram (J.P.), (*Paila—S.C.*) ; Gujeshwar (J.P.), (*Paniyara*) ; Jasvir Singh (J.P.), (*Patiali*) ; Rajpathy Mishra (J.P.), (*Patti*) ; Bhagavati Charan Nirmohan (J.P.), (*Pauri*) ; P. L. Shrivasthav (J.P.), (*Phulpur*) ; Ashok Bajpeyee (J.P.), (*Pihani*) ; Dheerendra Sahay (J.P.), (*Pilibhit*) ; Madhukar Dighe (J.P.), (*Pipraich*) ; Kamalkishan Pandey (J.P.), (*Pithoragarh*) ; Suraj Prasad (J.P.), (*Powayan—S.C.*) ; Sangam Lal (J.P.), (*Pratapgarh*) ; Har Pratap Singh (J.P.), (*Pratappur*) ; Dr. Baburam Prabhati (J.P.), (*Puranpur*); Chandra Bhushan Singh (J.P.), (*Purva*) ; Mohanlal Tripathy (Cong.-I.), (*Rae Bareilly*); Raj Narayan (J.P.), (*Rajgarh*) ; Dr. A. K. Chaturvedi (J.P.), (*Rajpur*) ; Banke Lal (J.P.), (*Ramkola*) ; Babu Ram Varma (J.P.), (*Ramnagar*) ; Mazdul Hassan Nomani (J.P.), (*Ramnagar*) ; Manjur Ali Khan (Cong.-I.), (*Rampur*) ; K. Tej Bhau Singh (J.P.), (*Rampur Khaus*) ; Govind Singh Mehra (J.P.), (*Ranikhet*) ; Raja Bahadur Yadav (J.P.), (*Rari*) ; Mannu Ram (J.P.), (*Rasra—S.C.*) ; Bal Krishna (J.P.), (*Rath*) ; Subedar Prasad (J.P.), (*Robertsganj—S.C.*) ; Rao Mustak (J.P.), (*Roorkee*) ; Pradeep Kumar Yadav (J.P.), (*Rudauli*) ; ‡Pradeep Kumar Bajaj (J.P.), (*Rudrapur*) ; H. C. Tiwari (J.P.), (*Sadabad*) ; Kalicharan (J.P.), (*Sadat*) ; Dasarath Singh (J.P.), (*Sadullanagar*) ; Sundar Lal (J.P.), (*Safipur—S.C.*) ; Ram Janam (J.P.), (*Sagri*) ; Sumer Chand Goel (J.P.), (*Sahranpur*) ; Nareshpal Singh Yadav (J.P.), (*Sahsvan*) ; Uday Narayan Singh (J.P.), (*Saidpur*) ; Pyare Lal (J.P.), (*Sakeet*) ; Hari Keval Prasad (J.P.), (*Salempur*) ; Deen Nath Sevak (J.P.), (*Salon—S.C.*) ; Shafikurahman Bux (J.P.), (*Sambhal*) ; R. N. Choube (Cong.), (*Sanaha*) ; Smt. Kudsia Begum (Ind.), (*Sandhila*) ; Dayaram Bhaskar (J.P.), (*Saraimir—S.C.*) ; Smt. Sunita Chowhan (Cong.-I.), (*Saraini*) ; Balveer Singh (J.P.), (*Sardhana*) ; Cheda Singh Chouhan (J.P.), (*Sarojininagar*) ; Jouhari Lal (J.P.), (*Sarsaul*) ; Ajab Singh (J.P.), (*Sarsava*) ; Prabhu Dayal Yadav (J.P.), (*Sarvankhera*) ; Dr. Bangali Singh (J.P.), (*Sasni—S.C.*) ; Ramdeo Yadav (Cong.-I.), (*Sataon*); Abdul Waheed (J.P.), (*Seohara*) ; Kripa Shankar Arya (J.P.), (*Seorahi*) ; Brij Ballabh Singh (Ind.), (*Shahabad*) ; Jagan Singh (J.P.), (*Shahabad—S.C.*) ; Chotelal (J.P.), (*Shahaganj—S.C.*) ; Mohd. Rafi Khan (J.P.), (*Shahajanpur*) ; S. P. Rawat (J.P.), (*Shahjanwa*) ; Trilok Chandra (J.P.), (*Shikarpur—S.C.*) ; Ganga Sahay Yadav (J.P.), (*Shikohabad*) ; S. L. Mithal (J.P.), (*Shoratgarh*) ; Pratap Singh Pushpavan (J.P.), (*Shri Badrikedar*) ; Raj Brijraj Singh (J.P.), (*Shrinagar*) ; Janardhan Prasad Oza (J.P.), (*Shyamdeurawa*) ; Aref Mohd. Khan (J.P.), (*Siana*) ; Rafiullah (J.P.), (*Siar*) ; Ram Sagar (J.P.), (*Sidhaur—S.C.*); Ganesh Lal Choudhri (J.P.), (*Sidhauli—S.C.*); Pratap Singh (J.P.), (*Sikandarabad*) ; Shiv Mangal Singh (J.P.), (*Sikandarpur*) ; Nem Singh Chauhan (J.P.), (*Sikandrarao*) ; B. N. P. Kushwaha (J.P.), (*Sirathu*) ; Moti Ram (J.P.), (*Sisamau—S.C.*) ; Sarada Prasad (J.P.), (*Siswa*) ; Rajendra Kumar (J.P.), (*Sitapur*) ; Hari Singh (J.P.), (*Sivalkhaus—S.C.*) ; Avadesh Prasad (J.P.), (*Sohawal—S.C.*) ; Banpal Singh (Cong.-I.), (*Soraon*); Jung Bahadur Singh Patel (J.P.), (*Sorav*) ; Dr. J. K. Agrawal (J.P.), (*Sultanpur*) ; Rameshwar Nath Chaube (Cong.-I.), (*Sunha*) ; Makbul Ahmed (Cong.-I.), (*Swar Tanda*).

Abdul Hafeez (J.P.), (*Tanda*) ; Govind Singh Negi (C.P.I.), (*Tehri*) ; Mukimaur Rahman (J.P.), (*Thakurdwara*) ; Mool Chand Thakur (J.P.), (*Thana Bhavan*) ; Mangal Dev (Cong.-I.), (*Thulsipur*) ; Satyapal Singh Yadav (Cong.), (*Tilhar*) ; Mohan Singh (Cong.-I.), (*Tiloi*) ; Jagannath Singh Parmar (J.P.), (*Tindwari*) ; Rajesh Kumar Singh (J.P.), (*Tundla—S.C.*) ; Ram Bux (J.P.), (*Umardha*); Chandra Pal Singh (J.P.), (*Unnao*) ; Shyam Sundar Gupta (J.P.), (*Urai*) ; Bhagwan Singh (J.P.), (*Usehat*) ; Rajendra Prasad Choudhri (J.P.), (*Utraula*) ; Barfia Lal Juvantha (J.P.), (*Uttar Kashi—S.C.*) ; Shatrudra Prakash (J.P.), (*Varanasi Cantt.*) ; Mustaq Ahmed (J.P.), (*Varanasi North*) ; Rajbali Tiwari (J.P.), (*Varanasi South*) ; Ousan Singh (J.P.), (*Vidhuna*) ; A. C. Grice (Anglo-Indian), (*Nominated*).

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* Allahabad Dist. † Barabanki Dist. ‡ Election set aside by High Court.

UTTAR PRADESH VIDHAN PARISHAD

Chairman : Dr. Virendra Swaroop.

Dy. Chairman : Vacant.

Seats : 108 ; *Party Position :* Congress (I) : 33 ; Janata Party : 31 ; Congress : 15 ; Teachers' Constituency : 9 ; Rashtravadi Dal : 1 ; C.P.I. : 3 ; Vacant : 16 ; Women members : 8.

Elected by the Legislative Assembly (39): Abbas Ali (J.P.) ; Z. A. Ahmad (C.P.I.) ; Smt. Indra Mohini (Cong.-I.) ; Tirath Singh (J.P.) ; Dayanand Byas (J.P.) ; Nisar Ahmad (J.P.) ; Smt. Prabhawati (J.P.) ; Ravindra Kishor Shahi (J.P.) ; Ram Lakhan (J.P.) ; Ram Singh (J.P.) ; Lalji Tandan (J.P.) ; Bishram (J.P.) ; Mohd. Julfikar Khan (Cong.-I.) ; Nek Ram Sharma (Cong.) ; Phul Chand (Cong.-I.) ; Bhamh Datt (Cong.-I.) ; Smt. Beena Duggal (Cong.-I.) ; Bhola Datt (Cong.) ; Ramendra Nath Verma (Cong.-I.) ; Rajeshwar Singh (Cong.) ; Vishwanath (Cong.-I.) ; Smt. Sita Dulari (Cong.-I.) ; Surat Chand (J.P.) ; Hasim Raja Abdi Illahabadi (Cong.-I.) ; Sri Krishna Bajpai (Cong.-I.) ; Smt. Chandra Wati (J.P.) ; Pannalal Tambey (J.P.) ; Mahi Pal Singh (J.P.) ; Ram Chandra Azad (J.P.) ; Ram Swarup (J.P.) ; Raj Kumar Sama (J.P.) ; Ram Naresh Singh (J.P.) ; Sarju Prasad (J.P.) ; Dr. Mahadev Prasad (J.P.) ; Guruprosad (C.P.I.) ; Ramesh Sinha (C.P.I.) ; Kum. Saraswati Ammal (Cong.-I.) ; Salig Ram Jaisawal (Cong.-I) ; Vacant : 1.

Local Authority Constituency (39) : Bhogi Lal Mishra (Cong.-I.), (*Agra*) ; Mahendra Singh (J.P.), (*Aligarh*) ; Ram Adhar Pandey (J.P.), (*Allahabad*) ; Vindhya Chal Rai (Cong.), (*Azamgarh-cum-Ghazipur*) ; Indra Pratap Singh (Cong.-I.), (*Bahraich*); Ram Krishna Dwivedi (Cong.), (*Basti-cum-Gorakhpur*) ; S. H. Upadhyaya (Cong.-I.), (*Basti-cum-Gorakhpur*) ; Nagendra Nath Singh (J.P.), (*Basti-cum-Gorakhpur*) ; Mitthan Lal Trivedi (Cong.-I.), (*Bullandshahr*) ; Smt. Malti Pandey (J.P.), (*Dewaria-cum-Balia*) ; Anandeshwar Prasad (J.P.), (*Dewaria-cum-Balia*) ; N. B. Singh (Cong.-I.), (*Faizabad*) ; Ram Ratan Singh (Cong.-I.), (*Fatehpur-cum-Banda*) ; S. B. Bhandari (Cong.-I.), (*Garwal-cum-Bijnore*) ; R. S. Sanwal (Cong.), (*Garhwal-cum-Kumaon*) ; Vacant (*Gonda*) ; [illegible] Singh (Cong.-I.), (*Hamirpur-cum-Jhansi*) ; [illegible] Singh (Cong.), (*Jalaum-cum-Etawah*) ; V. B. S. Chaedel (Cong.-I.), (*Kanpur-cum-Farrukhabad*) ; H. M. S. Yadava (J.P.), (*Kanpur-cum-Farrukhabad*) ; R. A. Dikshit (Cong.-I.), (*Kheri-cum-Sitapur-cum-Hardoi*) ; Vacant, (*Kheri-cum-Sitapur-cum-Hardoi*) ; Dhani Ram Jaiswal (Cong.-I.), (*Lucknow-Unnao-cum-Rai Bareli*) ; R. S. Pandey (Cong.-I.), (*Lucknow-Unnao-cum-Rai Bareli*) ; Vacant (*Lucknow-Unnao-cum Rai Bareli*) ; Biri Singh (Cong.-I.) ; (*Mainpuri-Etah-cum-Mathura*) ; R. S. Yadava (Cong.-I.), (*Mainpuri-Etah-cum-Mathura*) ; Ishwar Dayal Tyagi (Cong.-I.), (*Meerut-cum-Mujaffar Nagar*) ; Om Prakash Tyagi (J.P.), (*Meerut-cum-Mujaffar Nagar*) ; Muni Deo (Cong.-I.), (*Muradabad*) ; H. B. Belwal (Cong.I.), (*Nainital-cum-Bareli*); S. S. Singh (Cong.-I.), (*Pilibhit-cum-Shahjahanpur*) ; Puttu Lal (Cong.), (*Pratapgarh-cum-Sultanpur*) ; H. B. Singh (J.P.), (*Pratapgarh-cum-Sultanpur*) ; Srikrishna Goel (Cong.-I.), (*Rampur-cum-Badaun*) ; Dr. Jai Gopal (Cong.), (*Saharanpur-cum-Dehradun*) ; Uma Kant Mishra (Cong.-I.), (*Varanasi-cum-Mirjapur*) ; Raj Bihar Singh (Cong.-I.), (*Varanasi-cum-Mirjapur*.

Graduates Constituency (8): S. P. Gupta (J.P.), (*Agra*); Vacant (*Allahabad*); Kranti Kumar (J.P.), (*Garhwal-cum-Kumaon*) ; Vacant (*Gorakhpur-cum-Faizabad*) ; Vacant (*Kanpur-cum-Jhansi*) ; H. K. Awashthi (Cong.-I.), (*Lucknow*) ; Vacant (*Meerut*) ; Vacant (*Rohilkhand*) ; Dr. Raj Nath Singh (Teachers Party), (*Varanasi*).

Teachers Constituency (9) : R. P. Gupta (T.P.), (*Agra*) ; Mandhata Singh (T.P.), (*Allahabad*) ; R. C. Sharma (Bikat) (T.P.), (*Bareli*) ; Smt. Indira Hridayesh Kumar (T.P.), (*Garhwal-cum-Kumaon*) ; R. P. Ojha (R.D.), (*Gorakhpur-cum-Faijabad*) ; M. K. Chaturvedi (T.P.), (*Kanpur*) ; S. C. Saxena (T.P.), (*Lucknow*) ; O. P. Sharma (T.P.), (*Meerut*) ; Suneel Kumar (T.P.), (*Varanasi*).

Nominated (12) : R. S. Tripathi (Cong.-I.) ; Rehan Raja Khan (Cong.-I.) ; Sarva Sukh Singh (Cong.) ; Habibur Rahman Nomani (Cong.) ; Vacant : 8.

WEST BENGAL LEGISLATIVE ASSEMBLY

Speaker : Syed A. M. Habibullah.

Dy. Speaker : Kalimuddin Shamas.

Seats : 295 ; Electorate : 25,945,898 ; Votes polled : 14,478,369. An estimate of party position in the Assembly is as follows :—C.P.I.(M) : 177 ; Janata Party : 29 ; Forward Bloc : 26 ; Congress (I) : 11 ; Congress : 9 ; R.S.P. : 20 ; S.U.C. : 4 ; Forward Block (Marxist) : 3 ; R.C.P.I. : 3 ; C.P.I. : 2 ; C.P.I. (M.L.) : 1 ; Muslim League : 1 ; Congress for Democracy : 1 ; Biplabi Bangla Congress : 1 ; Independents : 4 ; Nominated : 1 ; Vacant : 2. Women Members : 4.

A. K. Bose (C.P.I.-M), (*Alipore*) ; Nani Bhattacharya (R.S.P.), (*Alipurduar*) ; Hashim Abdul Halim (C.P.I.-M), (*Amdanga*) ; Barindranath Koley (C.P.I.-M), (*Amta*) ; Habib Mustafa (C.P.I.-M.), (*Araidanga*) ; Ajoykumar Dey (J.P.), (*Arambagh*) ; D. C. Kuiry (F.B.), (*Arsha*) ; Bijoy Pal (C.P.I.-M), (*Asansol*) ; Nani Kar (C.P.I.-M), (*Ashokenagar*) ; Lutfat Haque (Cong.-I.), (*Aurangabad*) ; Sreedhar Malik (C.P.I.-M), (*Ausgram—S.C.*).

Mostafa Bin Quasem (C.P.I.-M), (*Baduria*) ; Kamalakshi Biswas (F.B.), (*Bagdaha—S.C.*); Smt. Nirupama Chatterjee (C.P.I.-M), (*Bagnan*) ; Abhinash Pramanik (C.P.I.-M), (*Balagarh—S.C.*) ; Bikram Tudu (C.P.I.-M), (*Balarampur—S.T.*) ; Patitpaban Pathak (C.P.I.-M), (*Bally*) ; Sachin Sen (C.P.I.-M), (*Ballygunge*) ; Biswanath Choudhuri (R.S.P.), (*Balurghat*); Sudhangshu Sekhar Majhi (C.P.I.-M), (*Banduan—S.T.*) ; Partha De (C.P.I.-M), (*Bankura*) ; Sunil Basu Roy (C.P.I.-M), (*Barabani*) ; Rabishankar Pandey (J.P.), (*Barabazar*) ; Motish Roy (R.S.P.), (*Baranagar*) ; Saral Deb (F.B.), (*Barasat*) ; Ashwinikumar Rai (C.P.I.-M), (*Barjora*) ; Hemen Majumdar (C.P.I.-M), (*Baruipur*) ; Amalendra Roy (R.S.P.), (*Barwan*) ; Kalipada Barman (R.S.P.), (*Basanti—S.C.*) ; Prabir Sengupta (C.P.I.-M), (*Bansberia*) ; Narayan Mukherjee (C.P.I.-M), (*Basirhat*) ; Niranjan Mukherjee (C.P.I.-M), (*Behala East*) ; Rabin Mukherjee (C.P.I.-M), (*Bahala West*) ; Timir Baran Bhaduri (R.S.P.), (*Beldanga*) ; Subhas Chakraborty (C.P.I.-M), (*Belgatchia*) ; Lakshmicharan Sen (C.P.I.-M), (*Belgatch West*) ; Krishnapada Ghosh (C.P.I.-M), (*Beliaghata*) ; Debabrata Bandopadhyay (R.S.P.), (*Berhampore*) ; K. H. [illegible] ; Haripada Jana (J.P.), (*Bhagabanpur*); Daud Khan (C.P.I.-M), (*Bhangore*) ; Satyapada Bhattacharyya (R.S.P.), (*Bharatpur*) ; Bholanath Sen (Cong.), (*Bhatar*) ; Sitaram Gupta (C.P.I.-M.), (*Bhatpara*); Jagdishchandra Das (C.P.I.-M), (*Bijpur*) ; Sambhunath Mandi (C.P.I.-M.), ([illegible]—S.T.) ; Sundar Naskar (C.P.I.-M.), (*Bishnupur East—S.C.*) ; [illegible] ; Jyotsnakumar Gupta (R.S.P.), (*Bolpur*) ; Ranjit Mitra (C.P.I.-M.), (*Bongaon*) ; Abdul Hasan (C.P.I.-M), (*Bowbazar*) ; K. R. Barmon (C.P.I.-M.), ([illegible]) ; Dwarkanath Tah (C.P.I.-M.), (*Burdwan North*) ; B. K. Chowdhury (C.P.I.-M.), (*Burdwan South*) ; [illegible] (R.S.P.), (*Burtola*).

Abdur Razzak Molla (C.P.I.-M.), (*Canning East*); Chittaranjan Mridha (C.P.I.-M.), (*Canning West—S.C.*); Binoy Kumar Biswas (Ind.), (*Chakdah*); Sailendranath Chattopadhya (C.P.I.-M.), (*Champdani*); Bhabani Mukherjee (C.P.I.-M.), (*Chandernagore*); Malin Ghosh (C.P.I.-M.), (*Chanditala*); Umapati Chakraborty (C.P.I.-M.), (*Chandrakona*); Sahabuddin Mondal (C.P.I.-M.), (*Chapra*); Subhas Goswami (R.S.P.), (*Chhatna*); Sambucharan Ghosh (F.B.), (*Chinsurah*); Maha Bacha Munsi (C.P.I.-M.), (*Chopra*); Sandip Das (J.P.), (*Chowringhee*); Rashbehari Pal (J.P.), (*Contai North*); Satyabrata Maity (J.P.), (*Contai South*); Smt. Aparajita Goppi (F.B.), (*Cooch-Behar North*); Bimal Kanti Basu (F.B.), (*Cooch-Behar West*); Buddhadev Bhattacharjee (C.P.I.-M.), (*Cossipur*); Deoprakash Rai (Ind.), (*Darjeeling*); P. C. Phodikar (C.P.I.-M.), (*Daspur*); Pradyot Kumar Mahanti (J.P.), (*Dantan*); Syed Morazzam Hossain (C.P.I.-M.), (*Debra*); A. K. M. Hassan Uzzasman (M.L.), (*Deganga*); Jatin Chakrabarty (R.S.P.), (*Dhakuria*); Kripa Shindhu Saha (F.B.), (*Dhaniakhali—S.C.*); Banamali Roy (C.P.I.-M.), (*Dhupguri—S.C.*); A. Q. Molla (C.P.I.-M.), (*Diamond Harbour*); Kamal K. Guha (F.B.), (*Dinhata*); Joykesh Mukherjee (C.P.I.-M.), (*Domjur*); Md. Abdul Bari (C.P.I.-M.), (*Domkal*); Bhaktibhusan Mandal (F.B.), (*Dubrajpur*); Tarun Sengupta (C.P.I.-M.), (*Dum Dum*); Dilipkumar Mazumdar (C.P.I.-M.), (*Durgapur I*); Tarun Chatterjee (C.P.I.-M.), (*Durgapur II*).

Probodhchandra Sinha (J.P.), (*Egra*); Sailen Sarkar (C.P.I.-M.), (*English Bazar*); Md. Nezamuddin (C.P.I-.M.), (*Entally*); J. N. S. Roy (C.P.I.-M.), (*Falakata—S.C.*); Nemaichandra Das (C.P.I.-M.), (*Falta*); Abdul Hasrat Khan (C.P.I.-M.), (*Farakka*); Kantichandra Biswas (C.P.I.-M.), (*Gaighata*); Sufal Murmu (C.P.I.-M.), (*Gajol—S.T.*); Debranjan Sen (F.B.), (*Galsi*); Nabani Bouri (C.P.I.-M.), (*Gangajalghati—S.C.*); Ahindra Sarkar (C.P.I.-M.), (*Gangarampur*); Chhedilal Singh (C.P.I.-M.), (*Garden Reach*); Surendu Mandol (C.P.I.-M.), (*Garhbeta East*); Santosh Bisui (C.P.I.-M.), (*Garhbeta West—S.C.*); Gopal Mandal (C.P.I.-M.), (*Ghatal—S.C.*); Ramzan Ali (Cong.-I.), (*Goalpokhar*); Nanuram Roy (J.P.), (*Goghat—S.C.*); Santosh Rana (C.P.I.-M.L.), (*Gopiballavpur*); Ganeshchandra Mondal (R.S.P.), (*Gosaba—S.C.*); Sarkar Murmu (C.P.I.-M.), (*Habibpur—S.T.*); Nirode Roychowdhury (C.P.I.-M.), (*Habra*); Sukumar Mondal (C.P.I.-M.), (*Hanskhali—S.C.*); Trilochan Mal (R.C.P.I.), (*Hansan—S.C.*); Shaikh Imajuddin (Cong.-I.), (*Hariharpara*); Nanigopal Malakar (C.P.I.-M.), (*Haringhata*); Balai Bandopadhyay (C.P.I.-M.), (*Haripal*); Birendra Kumar Maitra (J.P.), (*Harishchandrapur*); Kshitranjan Mondal (C.P.I.-M.), (*Haroa—S.C.*); Amiya Banerjee (C.P.I.-M.), (*Hasnabad*); Sudhanshu Mandal (C.P.I.-M.), (*Hingalganj—S.C.*); Bamapada Mukherjee (C.P.I.-M.), (*Hirapur*); Sudhin Kumar (R.C.P.I.), (*Howrah Central*); Chittabrata Muzumdar (C.P.I.-M.), (*Howrah North*); Pralay Talukdar (C.P.I.-M.), (*Howrah South*); Dr. Ambarish Mukhopadhayay (C.P.I.-M.), (*Hura*).

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Chief Justice of India : Y. V. Chandrachud ; *Judges :* Justice P. N. Bhagwati ; Justice V. R. Krishna Iyer ; Justice R. S. Sarkaria ; Justice A. C. Gupta ; Justice Nand Lall Untwalla ; Justice Syed Murtaza Fazal Ali ; Justice Prakash Narain Shinghal ; Justice P. S. Kailasam; Justice V. D. Tulzapurkar ; Justice D. A. Desai ; Justice R. S. Pathak, Justice O. Chinnappa Reddi ; Justice A. D. Koshal ; Justice A. P. Sen. *Registrars,* M. P. Saxena (*Admn.*) ; R. Narasimhan (*Judl.*).

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Central Vigilance Commissioner : M. G. Pimputkar ; *Secy.*, R. K. Sharma.

Comptroller and Auditor-General of India, 10, Bahadur Shah Zafar Marg, New Delhi 110002.

Comptroller & Auditor-General of India, Gyan Prakash ; *Dy. Comptroller & Auditor-Genl. of India*, Y. Krishan ; *Addl. Dy. Comptrollers & Auditors-Genl.*, T. Rengachari (*also Chairman, Audit Board*), P. P. Gangadharan, G. B. Singh.

ELECTION COMMISSION, Nirvachan Sadan, Ashok Rd., New Delhi 110001.

Chief Election Commr., S. L. Shakdher ; *Dy. Election Commr.*, A. K. Srinivasamurthy ; *Secs.*, V. Nagasubramanian, T. Nagarathnam.

MONOPOLIES & RESTRICTIVE TRADE PRACTICES COMMISSION, Travancore House, Kasturba Gandhi Marg, New Delhi 110001.

The Commission started functioning from August 6, 1970. The Monopolies and Restrictive Trade Practices Act, 1969 has been enacted to ensure that the operation of the economic system does not result in the concentration of economic power to the common detriment and to provide for the control of monopolies and the prohibition of monopolistic and restrictive trade practices. The Commission makes enquiries and reports to the Central Govt. on matters referred to it by the Central Govt. under various sections dealing with the expansion of existing undertakings, establishment of new ones, and matters relating to mergers, amalgamations or takeovers as well as monopolistic trade practices. As regards Restrictive Trade Practices, the Commission functions like a Court. Appeals against the Commission's orders lie with the Supreme Court.

Chairman : Justice S. Rangarajan : *Members :* H. M. Jhala, Dr. P. S. Sanghvi ; *Secy.*, S. M. Bagai.

PLANNING COMMISSION, Yojana Bhavan, Parliament St., New Delhi 110001.

Chmn., Morarji R. Desai ; *Dy. Chmn.*, Dr. D. T. Lakdawala ; *Members*, V. G. Rajadhyaksha, Prof. Raj Krishna, Dr. J. D. Sethi, B. Sivaraman ; *Principal Secy.*, N. K. Mukarji ; *Secy.*, Dr. Ajit Mazoomdar ; *Joint Secs.*, P. H. Vaishnav, S. P. Bagla ; *Advisers*, K. K. Srivastava (Coordn.), T. R. Satish Chandran (*Energy*), M. [illegible] (*Ind. & Minerals*), S. K. Bannerjee (*Agr. & Irr.*) [illegible] Govil (*Fin. Resources*), D. R. Gupta ([illegible] *Devpt.*), Dr. Y. K. Alagh (*Perspective Plng.*), [illegible] Bhatia (*Transport*).

UNION PUBLIC SERVICE COMMISSION, D pur House, Shahjahan Rd., New Delhi 110011.

Chairman : Dr. A. R. Kidwai ; *Members :* [illegible] Air Marshal T. S. Virk, M. Singaravelu, N. S. [illegible] Dr. P. C. Vaidya, Prof. S. Sampath, Dr. N. A. Noor [illegible] mad, Prof. B. Behera, Mrs. R. O. Dhan ; *Secy. :* B. R.

GOVT. AGENCIES :

Anthropological Survey of India, Indian [illegible] 27 J. L. Nehru Marg, Calcutta 700016. *Dir.*, [illegible] Rakshit. *Regnl. Offices :* Central Regn., 11 [illegible] Hills, Nagpur ; Southern Regn., Gokulam Rd., [illegible] Mysore ; North East Regn., Lachumiere, Shillong ; [illegible] West Regn., Hardwar Rd., Dehra Dun ; Andaman [illegible] Nicobar Regn., Port Blair ; Western Regn., [illegible] Fatehpura, Udaipur ; Zonal Anthropological [illegible] Jagdalpur, Bastar Dist.

Archaeological Survey of India, New Delhi [illegible] *Director-General*, Vacant ; *Addl. Dir.-Genl.*, B. K. [illegible] *Jt. Dir.-Genl.*, Mrs. D. Mitra.

Botanical Survey of India, Indian Botanic Gard P. O. Botanic Garden, Howrah 711103.

Director, Dr. S. K. Jain ; *Circle/Unit Offices :—*[illegible] *Circle, Pune ; Northern Circle, Dehra Dun ;* [illegible] *Allahabad ; Southern Circle, Coimbatore ; East*[illegible] *Shillong ; Arunachal Field Stn., Itanagar ;* [illegible] *Circle, Jodhpur ; Andaman & Nicobar Circle, Port* [illegible] *Indian Botanic Garden, Howrah ; Central National* [illegible] *barium, Howrah ; Central Botanical Laboratory,* [illegible] *Industrial Section, Indian Museum, Calcutta.*

Department of Explosives, Old High Court Bldg Civil Lines, Nagpur 440001.

Chief Controller of Explosives, I. N. Murthy ; **Ea Circle :** 8, Esplanade East, Calcutta 700001 ; **Sub-Circle** Rebeiro's Bldg., Pub-Sarania, Gauhati 781003 ; [illegible] laya, 48/1, Gorai Rd., Asansol 713301 ; 8, Zulu [illegible] Hazaribagh 825301 ; P. O. Indian Explosives, [illegible] 829112 ; **West Circle :** Industrial Assurance Bldg., [illegible] Churchgate Stn., Bombay 400020 ; **South Circle :** [illegible] Bhavan, 35, Haddows Rd., Madras 600006 ; **Sub-Circles** No. 2. 1.4.11.4, Palaniyandavarapuram Colony, [illegible] (T. Nadu) ; 55, Marredpally (West), Secunder[illegible] **North Circle :** [illegible] Agra 282002 ; **Central Circle,** [illegible] 474006.

Survey of India, Hqrs., Dehra Dun 248001.

Surveyor-General, Maj.-Gen. K. L. Khosla; [illegible] tion Directorate, Hathibarkala, Dehra Dun; **Norther Circle:** 17, E. C. Rd., Dehra Dun; Geodetic & [illegible] Branch, Dehra Dun ; **Eastern Circle :** 13, [illegible] Calcutta 700016 ; **Southern Circle :** 22, Rich[illegible] Bangalore 560025 ; Centre for Survey Trig. & [illegible] Hyderabad 500039 ; Pilot Map Prodn. Plant, Hyd[illegible] 500039 ; Survey Trg. Instt. ; Research & Develop[illegible] Hyderabad 500039 ; **South Central Circle,** [illegible] 500039 ; **Western Circle,** Jaipur 302006 ; **Cent Circle,** Jabalpur 482001 ; **North Western** [illegible] Chandigarh 160017 ; **North Eastern** Circle, [illegible] 793001 ; Directorate, Survey (Air), New Delhi [illegible] **South Eastern Circle,** Sahid Nagar, [illegible] 751007.

ological Survey of India, 34, Chittaranjan Ave., lcutta 700012. *Dir.*, Dr. T. N. Ananthakrishnan ; *W. gnl. Stn.*, 1182/2, Ferguson College Rd., "Shivajinagar", ne 411005 ; *S. Regnl. Stn. & Marine Biological Stn.*, 69, nthome High Rd., Madras 600028 ; *N. Regnl. Stn.*, 13, bhas Rd., Dehra Dun ; *Eastern Regnl. Stn.*, Shillong ; *sert Regnl. Stn.*, Jodhpur ; *Central Regnl. Stn.*, Jabalpur ; *ngetic Plains Regnl. Stn.*, Patna ; *High Altitude Field n.*, Solan (H.P.) ; *Andaman & Nicobar Field Stn.*, Port air.

dia Meteorological Department, Hqrs., Lodi Rd., w Delhi 110003.

Director-General of Observatories, Prof. Y. P. Rao ; *Dy. rectors-Genl. of Observatories*, Dr. P. K. Das (*Scientific rvices & Adm.*) ; C. R. V. Raman (*Project Dir., Monex, w Delhi*) ; George Alexander (*Instruments, New Delhi*) ; K. Das (*Plng. & Telecomm., New Delhi*) ; Dr. P. S. Pant *orecasting, Pune*) ; Dr. R. P. Sarker (*Climatology & ophysics, Pune*) ; *Dirs.*, H. M. Choudhury (*Seismology, w Delhi*) ; R. K. S. Saxena (*Northern Hemis. Analysis Centre, New Delhi*) ; Dr. S. M. Kulshreshtha (*Radio Meteorology, New Delhi*) ; S. Kumar (*Satellite Meteorolog, New Delhi*) ; S. N. Tripathi (*Aviation Services*, New Delhi) ; N. C. Dhar (*Tele. Comm., New Delhi*) ; Vacant (*Agrimet, Pune*) ; Vacant (*Instruments, Pune*) ; K. V. Rao (*Trg., Pune*) ; V. Shrinivasan (*Indian Ocean Southern Hemis. Analysis Centre, Pune*) ; Dr. K. S. Raja Rao (*Agri. Met., Pune*) ; *Dirs., Regnl. Meteorological Centres :* Dr. A. K. Mukherjee (*Bombay*), Nootan Das (*New Delhi*), Vacant (*Madras*), Dr. N. Sen Roy (*Calcutta*), S. B. Kulkarni (*Nagpur*).

Indian Institute of Astrophysics, Bangalore 560034. *Director :* Dr. M. K. V. Bappu.

Indian Institute of Geomagnetism, Colaba, Bombay 400005.

Indian Institute of Tropical Meteorology, Ramdurg House, Ganeshkhind Rd., Pune 411005. An autonomous research orgn. specialising in studies on tropical meteorology and allied fields.

STATES ADMINISTRATIVE PERSONNEL

(Corrected upto Nov. 15, 1978. Further changes, if any, appear in "Late Particulars" at the end of the book.)

NDAMAN & NICOBAR ISLANDS, Port Blair.

Chief Commissioner, S. M. Krishnatry ; *Chief Devpt. m-Rehab. Commr.*, Vacant ; *Chief Secretary*, Ashoke shi ; *Dev. Commr.-cum-Dev. Secy.*, B. R. Tamta ; *O.S.D. Finance Secy.*, B. S. Thapliyal ; *Secs.*, R. S. Rai (*Finance*), . D. Aggarwal (*Judl.*), Lalthanzama (*Forests—Chief onservator of Forests*), B. A. Satyanarayana (*Pub. Works – Principal Engr.*).

NDHRA PRADESH, Hyderabad.

overnor : K. C. Abraham.

inisters

Chief Minister in charge of Gen. Adm., Land Reforms, Inf. Pub. Relations, Inds., etc. etc., Dr. M. Channa Reddy; *o.-opn.*, N. Amarnatha Reddy ; *Panchayati Raj, etc.*, . Baga Reddy ; *Textiles, Sericulture, etc.*, P. V. Choudary ; *inor Irri., Elections*, C. Dass ; *Excise, Leg. Affairs, etc.*, . Ranga Reddy ; *Home, Police, Passports, Prisons, etc.*, . M. Hashim ; *Tech. Edn., etc.*, T. Hayagrivachari ; *and Revenue, etc.*, N. Janardhana Reddy ; *Medical & ealth*, A. Madan Mohan ; *Highways, Roads, etc.*, M. Manik ao ; *Mun. Adm., etc.*, V. Nageswara Rao ; *Small Scale nds., Comm., etc.*, K. B. Narasappa ; *Medium Irri., Flood ontrol, etc.*, K. Obul Reddy, *Finance, Power, Sports, etc.*, . Raja Ram ; *Animal Husb., Dairy Devpt., etc.*, B. Ram ev; *Tourism, etc.*, Smt. Roda Mistry; *Major Irri., Comml. axes*, G. V. Sudhakara Rao ; *Plng., Religious & Charitable ndowments, etc.*, V. Venkatanarayana ; *Primary, Secondary & Collegiate Edn., etc.*, O. Venkata Ram Reddy ; *Agri., ommand Area Devpt., etc.*, Y. Venkata Rao ; *Labour & mp., etc.*, G. Venkatasamy ; *Social Welfare, etc.*, K. V. R. S. admanabha Raju ; *Housing, etc.*, K. Ranga Rao ; *Rural evpt., etc.*, P. Seshavatharam ; *Civil Supplies, etc.*, A. eerappa.

Ministers of State

Relief & Rehab., etc., Ahmed Shareef ; *Law, Courts, Ports*, . Bhaskara Rao ; *Forests, etc.*, Nizam Vali ; *Mktg., arehousing ; etc.*, M. S. V. Prasada Rao ; *Fisheries*, G. amaswamy ; *Transport*, A. Vengala Reddy ; *Mines. & ology*, S. Venkata Reddy.

Secretariat, Hyderabad 500004.

Chief Secretary, I. J. Naidu ; *Secs.*, A. Chandrasekhar *edical & Health*) ; S. R. Ramamurthy (*G.A.D.*) ; E. V. Ram Reddi (*Revenue*) ; B. P. R. Vithal (*Finance, etc.*) ; Shravan Kumar (*Forests & Rural Devpt.*) : B. Pratap Reddy (*Food & Agri.*) ; G. R. Nair (*Transport, Roads & Bldgs.*) ; M. Gopalakrishnan (*Irri. & Power*) ; Syed Hashim Ali (*Command Area Devpt.*) ; K. Subrahmanyam (*Food & Agri.*); V. K. Dhar (*Inds. & Comm.*); Dilsukhram (*G.A.D.*); K. V. Natarajan (*Housing, Mun. Admn. & Urban Devpt.*) ; Gurudas (*Panchayat Raj*) ; S. R. Sankaran (*Social Welfare, Labour, Emp., etc.*) ; K. M. Ahmed (*Edn.*) ; N. Raghava (*Services, Trg., etc.*) ; M. V. Narayana Rao (*Home*) ; V. V. V. Satyanarayana (*Law*) ; K. Srirams Chari (*Legis.*).

Andhra Pradesh Khadi & Village Industries Board, 2-4-114, K. Guda, Hyderabad 500027.

Hyderabad Urban Development Authority, Sadana Bldgs., Hyderguda, Hyderabad 500029.

High Court, Hyderabad 500266.

Chief Justice, A. Sambassiva Rao, *Judges*, C. Kondiah, A. Kuppuswami, K. Madhava Reddy, K. Ramachandra Rao, M. Ramchandra Raju, T. Lakshmaiah, K. A. Muktdar, P. Chennakesav Reddy, V. Madhava Rao, S. Madhusudan Rao, K. Punnayya, A. Raghuvir, A. Gangadhara Rao, K. Jayachandra Reddy, B. P. Jeevan Reddy, Smt. K. Amareswari, T. Narasingh Rao, P. Choudhary ; *Addl. Judges*, T. P. Ramachandra Raju, G. R. Naidu, A. Seetharama Reddy. *Registrar*, K. Venkataramana.

South Central Railway, Rail Nilayam, Secunderabad 500371.

General Manager, T. M. Thomas ; *Sr. Dy. Genl. Manager*, K. Santhanam ; *Chief Plng. Officer*, Y. Krishnamurty ; *Chief Optg. Supdt.*, P. A. Pai ; *Chief Safety Supdt.*, S. Balasubramanian ; *Chief Comml. Supdt.*, S. Ramakrishnan ; *Chief Claims Officer*, C. R. Subbaraman ; *Chief Engr.*, P. V. Sundara Rao ; *Chief Engr. (Constn.)*, P. G. Gopalan ; *Chief Bridge Engr.*, M. C. Kudari ; *Chief Mech. Engr.*, K. T. V. Raghavan ; *Chief Workshop Engr.*, S. Ekambaram ; *Chief Electl. Engrs.*, N. Sankar Narayan, S. Nagarajan (*Rly. Electrification*) : *Chief Signal & Telecomm. Engr.*, V. N. Swamy ; *Controller of Stores*, B. C. Chowdiah ; *Chief Personnel Officer*, C. B. Ramakrishna Reddy ; *Chief Security Officer*, P. S. Ramamohan Rao ; *Chief Medical Officer*, Dr. P. C. Bhalla ; *F.A. & C.A.O.*, E. Varadachari ; *Chief Public Relations Officer*, M. A. Rauf.

ARUNACHAL PRADESH, Itanagar & Shillong.

Lt. Governor : R. N. Haldipur.

Ministers

Chief Minister in charge of portfolios not allocated to other Ministers, P. K. Thungon ; *Supply & Transport, Economics & Stats., etc.,* Tadar Tang ; *Agri., Rural Devpt., Co-opn., etc.,* Sobeng Tayeng ; *Pub. Works, Ind., Comm. Devpt., etc.,* Gegong Apang ; *Edn., Law, Labour, etc.,* Nokme Nemati.

Secretariat

Chief Secretary, I. P. Gupta ; *Secs. :* J. Barthakur (*Supply & Transport*), J. M. Shrivastava (*Law & Judl.*), Smt. V. Rai (*Plng. & Devpt.*), P. Kamath (*G.A.*), D. A. Das (*Home*), M. M. Lal (*Edn.*), T. C. Hazarika (*Chief Proj. Officer*).

Principal Officials

Dy. Commrs. : S. C. Sarma (*Along*), O. P. Khelkar (*Bomdila*), J. M. Syiem (*Ziro*), N. C. Bajpai (*Tezu*), R. P. Rai (*Khonsa*) ; *Dirs. :* G. C. Vats (*Edn.*), M. P. Hazarika (*Inf. & Pub. Relations*), I. M. Simon (*Research*), Dr. A. Bhattacharyya (*Health*), M. C. Joshi (*Agri.*), E. S. Thangam (*Chief Conservator of Forests*).

ASSAM, Dispur, Gauhati 781006.

Governor: L. P. Singh.

Ministers

Chief Minister in charge of Home, Gen. Adm., Plng. & Devpt., etc., etc., Golap Borbora ; *P.W.D., Trade & Comm. Parl. Affairs, etc.,* Dulal Ch. Barua ; *Finance, Judl., Tourism, etc.,* Keshab Ch. Gogoi ; *Edn., Cult. Affairs,* Lakhyadhar Choudhury ; *Agri., Co-opn.,* Sonewsar Bora ; *Forests, Vet. & Animal Husb.,* Samar Brahma Choudhury; *Labour, Ind., Pub., Enterprises,* Jagannath Sinha ; *Irri., Power, Mines & Minerals, etc.,* A. F. Golam Osmani ; *Revenue, Land Reforms,* Lakheswar Gohain ; *Panchayat, Comm. Devpt., Transport, etc.,* Zahirul Islam ; *Flood Control, etc.,* Ramesh Mohan Kouli ; *Hills Areas, etc.,* Sonaram Thaosen.

Ministers of State

Fishery, Relief & Rehab., Lilamoy Das ; *Health & Family Welfare, etc.,* Dr. Kosheswar Bora, *Social Welfare, etc.,* Ramani Barman ; *Sericulture, etc.,* Ganchi Ram Timung.

Parliamentary Secretaries

Cult. Affairs, etc., Anil Das : *Agri. & Labour,* Silvius Condpan ; *Co.-opn.,* Afjalur Rahman ; *Soil Conservation, Transport, etc.,* Ram Ch. Sarma.

Secretariat

Chief Secretary, S. M. L. Bhatnagar ; *Commrs.,* P. H. Trivedi (*Plng., Devpt., Finance*) ; P. P. Trivedi (*Agri. Prodn., Rural Devpt.*); B. K. Bhuyan (*Supply & Co.-opn.*) ; A. K. Palit (*Trg.*) ; P. N. Rau (*Hills Dn.*) ; M. C. Narasimhan (*Lower Assam Dn.*) ; S. D. Phene (*Upper Assam Dn.*) ; A. P. Sarwan (*Spl.* (*Liaison*) — *New Delhi*) ; *Secs.,* H. Pais (*Health, etc.*) ; A. Bhattacharyya (*Pub. Enterprises, etc.*) ; M. Gopalakrishna (*Inds.*) ; A. K. Choudhury (*T. & C. P. & P. & C. D.*) ; Bhaskar Barua (*Home, Parl. Affairs, etc.*) ; A. Ali (*Revenue, etc.*) ; P. K. Borah (*Edn.*) ; H. N. Das (*Finance*) ; C. P. Misra (*Supply & Co-opn.*) ; S. Goswami (*Transport, Tourism, Labour*) ; S. P. Hazarika (*Agri. & Veterinary*) ; K. S. Rao (*Welfare of Plains Tribes & Backward Classes*) ; A. B. Syed Anamul Haque (*Irri.*) ; H. Barua (*P.W.D.*) ; U. Tahbildar (*Legis.*) ; H. Gohain (*Flood Control*) ; B. L. Hansaria (*Judl.*).

Principal Officials

Chmn., A.S.E.B., Lt. Gen. S. D. Gupta ; *Registrar of Co-op. Socs.,* P. Sen ; *Chief Conservator of Forests,* A. Islam ; *Inspector-Genl. of Police,* S. Ahmed ; *I[illegible] tor-Genl. of Prisons,* N. R. Phookan ; *Dirs.,* Dr. [illegible] Mahanta (*Agri.*); D. Chaliha (*Tech. Edn.*) ; B. D. [illegible] (*Pub. Instn.*); B. C. Pathak (*Inf. & Pub. [illegible]*) Rudra Borua (*Cult. Affairs*) ; Dr. N. G. Banerjee ([illegible] *Services*) ; G. C. Kohund (*Emp. & Craftsmen Trg.*), A. Borua (*Inds.*) ; J. N. Sarma (*Economics & Stats.*) ; N. N. Hazarika (*Social Welfare*) ; S. K. Bhattacharjee (*[illegible] & Mining*) ; D. N. Bhattacharjee (*Supply*) ; K. K. [illegible] (*Inland Water Transport*) ; M. Ahmed ([illegible]) ; R. K. Sarma (*Mun. Adm.*) ; H. K. Borkakoty ([illegible]) ; L. R. Bora (*Animal Husb. & Vet.*) ; M. K. Islam ([illegible]

Gauhati High Court (High Court of Assam, Nagaland, Meghalaya, Manipur & Tripura), Gauhati [illegible]

Ag. Chief Justice, Baharul Islam ; *Judges :* D. [illegible] Kiranmay Lahiri, N. Ibotombi Singh ; *Registrar,* S. [illegible] Rajkhowa ; *Advocates-General,* B. C. Barua (*Assam*), Vacant (*Nagaland*), N. M. Lahiri (*Meghalaya*), Y. [illegible] Singh (*Manipur*), D. P. Kundu (*Tripura*).

North-East Frontier Railway, Maligaon, Gauh[illegible] 781011.

General Manager, B. Venkataramani ; *Sr. Dy. [illegible] Manager,* J. A. Webster : *Dy. Gen. Manager* (G[illegible]), h. Ananthanarayanan ; *Chief Personnel Officer,* A. V. S[illegible] manian ; *Chief Operating Supdt.,* A. K. Chakravarti ; *Chief Mech. Engr.,* P. Krishnamurthy ; *Chief Signal & T[illegible] Engr.,* V. Ramasamy ; *FA & CAO,* B. Madhavan ; *Chief Electrical Engr.,* P. Sathiapalan ; *Chief Engr.,* H. S. [illegible] *Chief Com. Supdt.,* D. P. Sharma ; *Chief Claims O[illegible]* P. C. Mishra ; *Chief Security Officer,* M. R. Choudhury ; *Chief Medical Officer,* Dr. M. M. Chawla ; *Controller of Stores,* M. K. Menon ; *Chief Pub. Relations Officer,* B. B[illegible] *Chief Plng. Officer,* D. Chatterjee.

BIHAR, Patna.

Governor: Vacant.

Lok Ayukta : S. N. P. Sinha.

Ministers

Chief Minister in charge of Cabinet Sectt. & Co-ordn. (excluding Information, Public Relations and Tourism), Home (excluding Jail) & Apptt., Karpoori Thakur ; *Finance,* Kailashpati Mishra ; *Cooperative,* Jageshwar Mandal ; *Agri. and Parl. Work,* Kapildeo Singh ; *Industries,* Thakur Prasad ; *Public Works,* Anooplal Yadav ; *Urban Devpt.,* Smt. Sumitra Devi ; *Irrigation,* Sachchidanand Singh ; *Welfare (including Social Welfare) ;* Kameshwar Paswan ; *Forests,* Lalit Oraon ; *Rural Devpt.,* Jagbandhu Adhikari ; *Transport,* Shankar Prasad Tekriwal ; *Revenue & Land Reforms,* Upendra Nath Verma ; *Law, Food, Supply & Comme[illegible]* Mahabir Prasad ; *Higher Edn. and Waqf.* Gulam S[illegible] *Mines and Geology,* Puran Chand ; *Tourism & [illegible] Trust,* Mohan Ram ; *Primary Edn.,* Digamber Thakur ; *Sugarcane,* Mahadev Marandi ; *Higher Edn., Science & Technology, Pub. Health Engg., etc.,* Thakur Prasad Singh ; *Animal Husb. & Fisheries,* [illegible] Singh Yadav ; *Jail & Excise,* Baidyanath Mehta ; *Labour & [illegible]* Shamsher Jang Bahadur ; *Health & Family W[illegible]* Zabir Hussain.

Ministers of State

Cooperative, Siaram Thakur ; *Apptt. & [illegible]* Manjayalal ; *Higher Edn., Science & Technology,* [illegible] shwar Prasad Singh ; *Rural Devpt.,* Sukhdeo [illegible] *Industries,* Janardan Yadav ; *Irrigation,* Gajendra [illegible] Himanshu ; *Finance,* Smt. Lalita Rajya Laxmi ; [illegible] *city & Religious Trust,* Raghubansh Prasad [illegible] *and Excise,* Jorawar Ram.

Parliamentary Secretaries

Mines & Geology, Prof. Jagganath Prasad Yadav; *Personnel*, Jagdambi Mandal; *Plng.*, Beer Singh; *Pub. Works*, Smt. Radhika Devi; *Science & Technology*, Mithilesh Prasad Singh; *Supply & Commerce*, Abdul Basi Siddiqui; *Home (Spl.)*, Gautam Sagar Rana; *Health*, Smt. Sudha Shrivastava; *Revenue, Land Reforms*, Rajesh Kumar; *Animal Husb.*, Gobardhan Naik; *Transport*, Kade Manjhi; *Forests*, Kamla Kant Prasad Sinha; *Edn.* Chandra Shekhar Jha; *Labour & Emp.*, Dhruva Bhagat.

Secretariat

Chief Secretary, K. A. Rama Subramaniam; *Devpt. Commr.*, S. C. Roy; *Civil Defence Commr.*, S. K. Sinha; *Food Commr.*, K. P. Sinha; *Land Reforms Commr.*, A. R. Bandopadhyaya; *Ind. Devpt. Commr.*, Ballav Sharan; *Finance Commr.*, Vinod Kumar; *Public Works Commr.*, S. N. Sharma; *Irrigation and Power Commr.*, N. Nagamani; *Sales Tax Commr.*, Abbu Hakim; *Agri. Prodn. Commr.*, C. R. Venkaraman; *State Transport Commr.*, B. N. Prasad; *Health Commr.*, S. Prabhakaran; *Edn. Commr.*, S. K. Srivastava; *Depttl. Enquiry Commr.*, Chandra Bhusan Prasad; *Relief & Rehab. Commr.*, Arun Prasad; *Excise Commr.*, Abhimannu Singh; *Resources Commr.*, J. S. Bali; *Mines Commr.*, V. V. Nathan; *Labour Commr.*, Madhav Sinha; *Home Commr.*, N. P. Sinha; *Secs.*, R. N. Das (*Home*); Mohinder Singh (*Irri. & Power*); S. P. Jakhanwal (Cooptve); B. K. Singh (*Agri.*); T. C. A. Srinivas Ramanujan (*Planning and Devpt. Plng.*); I. C. Kumar (*Labour & Emp.*); Phulchand Singh (*Revenue & Reforms*); A. B. Ava (*Village Devpt.*); K. B. Saxena (*Spl. Home*); N. K. Singh (*Spl. Irrigation & Power*); P. S. Mukhopadhyaya (*Spl. Edn.*); N. K. Sarkar (*Urban Devpt.*); Chandra Mohan Jha (*Spl. Agri. & Animal Hus.*); R. K. Sinha (*Ind.*); S. N. Sinha (*Spl.-Finance*); *Dirs.*, Vidyanand Ojha (*Stats. & Evaluation*); C. K. Basu (*Ind.*); S. P. Chaudhury (*Tourism*), J. N. Jha (*Public Relations*); *Inspector-Genl. of Police*, Rajeshwar Lal.

Bihar State Khadi & Village Industries Board, East Gandhi Maidan, Patna 800004.

Patna Industrial Area Devpt. Authority, Udyog Bhavan, Patna 800001.

High Court, Patna 800001.

Chief Justice: Krishna Ballabh Narayan Singh; *Judges:* Shambhu Prasad Singh, Syed Sarwar Ali, Madan Mohan Prasad, Shiveshwar Prasad Sinha, Rameshwar Prasad Sinha, Chandra Narain Tiwary, Bhagwati Prasad Jha, Hari Lal Agarwal, Lalit Mohan Sharma, Sushil Kumar Jha, Nagendra Prasad Singh, Muneshwari Sahay, Sunil Kumar Choudhuri, Uday Sinha, Syed Ali Ahmad, Birendra Prasad Sinha, Medini Prasad Singh; *Addl. Judges*, Brishketu Saran Sinha, Shivanugrah Narain, Gobind Mohan Misra, Prem Shankar Sahay, Chaudhary Sia Saran Sinha, S. S. Hasan, Manoranjan Prasad, Satyeshwar Roy, Vishwanath Mishra. *Registrar*, Binodanand Singh.

DELHI, Delhi.

Lt. Governor : D. R. Kohli.

Chief Executive Councillor, Kedar Nath Sahni; *Executive Councillors*, M. C. Khurana (*Ind., Food & Civil Supplies, Health & Law*); Rajesh Sharma (*Labour, Emp., Taxation, Excise, Jails*); Fateh Singh (*Panchayat, Coopn., Social Welfare & Harijan Welfare, Irrigation & Flood Control*); *Chief Secretary*, P. P. Caprihan; *Financial Commr.*, D. K. Dass; *Development Commr.*, S. M. Goyal; *Judicial Secy.*, G. C. Jain; *Finance Secy.*, K. S. Baidwan; *Dy. Commr.*, R. K. Ahuja; *Commr. of Police*, J. N. Chaturvedi; *Labour Commr.*, K. D. Gupta; *Dt. & Sessions Judge*, O. N. Vohra; *Directors :* P. P. Chauhan (Edn.), Subhash Chandra (*Inf. & Publicity*), J. N. Gupta (*Industries*), Smt. Shailaja C. Chandra (*Trg. & Emp.*).

Delhi Development Authority, D-1, Vikas Bhawan, Indrasprastha Estate, New Delhi 110001.

High Court, New Delhi 110001.

Chief Justice, V. S. Deshpande; *Judges*, M. Sadananda Swamy, Prakash Narain, V. D. Misra, B. C. Misras, Prithvi Raj, S. Rangarajan, Dalip K. Kapur. T. P. S. Chawla, A. B. Rohatgi, Rajinder Sachar, R. N. Aggarwal, H. L. Anand, Yogeswar Dayal, F. S. Gill, M. S. Joshi, S. S. Chadha; *Addl. Judges*, Sultan Singh, Mrs. Leela Seth, S. Ranganathan, N. N. Goswami; *Registrar :* M. L. Jain.

Northern Railway, Baroda House, New Delhi 110001.

General Manager, R. Srinivasan; *Sr. Dy. Genl. Manager*, J. M. Kapoor; *Chief Optg. Supdt.*, B. C. Sharma; *Chief Safety Supdt.*, Prakash Narain; *Chief Comml. Supdt.*, Swaran Singh; *Chief Mktg. Supdt.*, Chand Narain; *Chief Claims Officer*, K. L. Nanda; *Chief Engr.*. S. K. Gandotra; *Chief Engr. (Const.)*, D. C. H. Mathur; *Chief Bridge Engr.*, K. Ramaswamy; *Chief Track Engr.*, J. K. Mathur; *Chief Engr. (Rly. Electrification)*, J. A. Raj; *F.A. & C.A.O.*, M. S. Gill; *Chief Mech. Engr.*, Amarjit Singh; *Chief Workshop Engr.*, Himmat Singh; *Chief Signal & Telecomm. Engrs.*, Sirish Chandra, L. C. Vaswani (*Const.*); Chief *Personnel Officer*, S. S. Mahant; *Chief Electl. Engr.*, M. L. Khullar; *Chief Security Officer*, R. B. Singh; *Chief Medical Officer*, Dr. M. C. Khorwal; *Controller of Stores*, Sudarshan Lal; *Chief Pub. Relations Officer*, Lal Singh Ujwal; *Chief Plng. Officer*, M. K. Modwal.

GOA, DAMAN & DIU, Panaji.

Lt. Governor : (*Concurrently Administrator of Dadra & Nagar Haveli*), Col. Pratap Singh Gill.

Ministers

Chief Minister in charge of Home, Finance, Inds., Plng., Public Works, Inf. & Tourism, Edn., etc., Smt. Shashikala G. Kakodkar; *Law & Judl., Leg. Affairs, Pub. Health, Revenue, Forests, Housing, etc.*, Shankar Vishveshwar Laad; *Agri., Animal Husb., Fisheries, Irri., Power, Food, Civil Supplies, etc.*, Vinayak Dharma Chodankar.

Minister of State

Edn., Inf. & Tourism, Social Welfare, Pub. Assistance & Provedoria, Raul Hilario Fernandes.

Secretariat

Chief Secretary, R. M. Agrawal, I.A.S.; *Judl. Commr.*, Tito Menezes; *Devept. Commr. & Secy., Plng.*, Dr. J. C. Almeida, I.A.S.; *Secs.*, V. V. Mongia (*Revenue*); K. C. D. Gangwani (*Law & Judiciary*); M. R. Vats (*Finance*).

Principal Officials

Dirs., R. G. Jatkar (*Inf.*); V. G. S. Kakodkar (*Animal Husb.*); R. M. Dhavan (*Fisheries*); G. K. Bhattacharya (*Inds. & Mines*); S. K. Gandhe (*Econ., Stats. & Evaluation*); H. Y. Karapurkar (*Agri.*); V. A. P. Mahajan (*Tourism*); G. N. Sardesai (*Health*); Vaman Sardesai (*Civil Supp. & Price Control*); A. Pereira (*Land Survey*); W. N. Dandekar (*Edn.*); N. D. Vengurlekar (*Transpt.*); V. T. Gune (*Archieves*); Dr. S. K. Mali (*Sports & Cultl. Affairs*); Jose Philip (*Social Welfare*); Prakash Singh (*Inspector-Genl. of Police*); Puk Raj Bumb (*Registrar, Co-op. Socs.*); S. S. Chana (*Conservator of Forest*); G. K. Bhattacharya (*Commr. of Sales Tax & Excise*); G. F. Lalchandani (*Commr. of Labour & Emp.*); M. P. Tyagi (*Special Commr., Goa Sadan, New Delhi*).

GUJARAT, Gandhinagar 382010 (Ahmedabad Dist.).

Governor : Smt. Sharda Mukerjee.

Ministers

Chief Minister in charge of Gen. Adm., Energy (excluding Electricity), Babubhai J. Patel ; *Panchayats (including C. D. Projects),* Maneklal Gandhi ; *Agri. & Irrigation,* Keshubhai Patel ; *Inds., Parl. Affairs & Sports, etc.,* Bhailalbhai Contractor ; *Labour, Urban Devpt., Plng., etc.,* Navinchandra Barot ; *Inf., Tourism, Home, etc.,* Popatlal Vyas ; *Civil Supplies, Sarvodaya, Cottage & Village Inds.,* Lallubhai Sheth ; *Edn., Animal Husb., Dairy Devpt. & Medical Edn.,* Navalbhai Shah ; *Mines, Minerals & Electricity, etc.,* Makrand Desai ; *Finance, Plng., etc.,* Dinesh Shah ; *Revenue, Relief & Rehab.,* Dr. Keshavbhai Patel ; *Medical, Health, etc.,* Mrs. Hemaben Acharya ; *Co-opn., Judiciary, etc.,* Rasikchandra Acharya ; *Prohibition, etc.,* Harisinh Chavda ; *Transport, Jails & Capital Project,* Shankerbhai Waghela ; *Small Savings, Ports & Fisheries,* Bhanji Bhimji Patel ; *Harijan & Youth Welfare,* Bhimabhai Rathod ; *Tribal Welfare, Forests & Rural Housing,* Chandubhai Deshmukh.

Parliamentary Secretaries

Parliamentary Secretaries: Lekhraj Bachani, Chimanbhai Patel, Dhaneshwar Vyas, Ramubhai Jadav and Kasambhai Achwa.

Secretariat

Chief Secretary: H. K. L. Kapoor ; *Addl. Chief Secs.,* G. C. Baveja (*Finance*), K. Sivaraj (*Home*) ; *Secs.,* R. V. Chandramauli (*Edn.*) ; M. G. Shah (*Inds.*) ; M. D. Patel (*Pub. Works*) ; H. K. Khan (*Agri., Forests & Co-opn.*) ; S. L. Talati (*Legal*) ; K. D. Buddha (*Panchayat, Housing & Urban Devpt.*) ; K. V. Haridas (*Revenue*) ; S. H. Jagad (*Food, Civil Supplies*) ; K. Parthasarathi (*Health*) ; V. Krishnamurthi (*Plng.*) ; B. V. Bhatt (*G.A.D.*) ; K. Ramamoorthy (*Labour, Social Welfare & Devpt.*).

Principal Officials

Dirs.: Dr. R. L. Pathak (*Agri.*) ; Dr. H. N. Patel (*Pub. Health & Medical Services*) ; Prof. A. K Kumta (*Tech. Edn.*) ; P. B. Buch (*Bureau of Economics & Stats.*) ; M. R. Shastri (*Drugs Control*) ; Dr. N. C. Buch (*Animal Husb.*) ; S. V. Chandorikar (*Transport*) ; K. J. Kurava (*Social Welfare*) ; R. K. Budabhatti (*Ports*) ; P. B. Joshi (*Prohibition*) ; S. K. Mehta (*Inf.*) ; *Commissioners:* Kumar Pradyumansinhji (*Inds.*); J. P. Raval (*Labour*); *Inspector-Genl. of Police,* H. N. Sethna ; *Commr. of Police (Ahmedabad),* Harishchandra Singh ; *Inspector-Genl. of Prisons,* Vacant ; *Vigilance Commr.,* N. D. Buch.

Gujarat Labour Welfare Board, Outside Raipur Gate, Ahmedabad 380022.

Gujarat Slum Clearance Board, Shahibaug, Ahmedabad 380004.

High Court, Navrangpura, Ahmedabad 380009.

Chief Justice, B. J. Divan ; *Judges,* A. D. Desai, S. H. Sheth, D. P. Desai, M. P. Thakkar, P. D. Desai, B. K. Mehta, A. N. Surti, N. H. Bhatt, A. M. Ahmadi, M. K. Shah, R. C. Mankad, S. B. Majumdar ; *Registrar:* B. J. Jadeja.

HARYANA, Chandigarh.

Chief Commissioner, Chandigarh, J. C. Aggarwal.

Governor: Harcharan Singh Brar.

Ministers

Chief Minister in-charge of Gen. Admn., Home (only C.I.D.), Pub. Relations, Plng., Civil Aviation, Tourism, Devi Lal ; *Inds., Indl. Trg.,* Mangal Sein ; *Agri., Fisheries, Medical Edn., etc.,* Ram Singh ; *Irri. & Power, etc.,* Virender Singh ; *Revenue, Rehab., Housing, etc.,* Bir Singh ; *Transport, Social Welfare,* Prem Singh ; *Pub. Health, Labour, Ayurved, etc.,* Lachhman Singh ; *Health & Family Welfare, Wakf. etc.* Smt. Kamla Devi ; *Local Govt., Parl. Affairs etc.,* Ram Lal ; *Edn.,* Hira Nand Arya ; *Cult. Affairs, Jails,* Mehar Singh Rathi ; *Excise & Taxation, etc.,* [illegible] Singh ; *Co-opn., Dairy Devpt., Animal Husb., etc.,* [illegible] Lal ; *Finance,* Mool Chand Jain ; *Food & Supplies, etc.,* Gajraj Nagar.

Chief Parliamentary Secretary

Pub. Relations, Transport, Surinder Singh.

Secretariat

Chief Secretary in charge of Plng., Elections, Rehab., etc., S. D. Bhambri ; *Secs.,* V. P. Johar (*P.W.D.—Pub. Health & Financial Commr.*) ; Ishwar Chander (*P.W.D.—I. & P. & Financial Commr.*) ; Kulwant Singh (*Edn., Sports, Dairy Devpt., etc.*) ; B. S. Ojha (*Finance, Tourism, Cult. Affairs, etc.*) ; H. V. Goswami (*Revenue, etc.*) ; V. K. [illegible] (*Inds. & Indl. Trg., Tech. Edn., etc.*) ; A. Banerjee (*Home, Jails, Vigilance, etc.*) ; G. V. Gupta (*Labour & Emp., Social Welfare, etc.*) ; L. D. Kataria (*Agri., Animal Husb., Forests, Fisheries, etc.*) ; B. S. Yadav (*Legis.*).

Principal Officials

Chmn., Pub. Service Commn., B. S. Luther ; *Economic & Stat. Adviser,* R. P. Chopra ; *Excise & Taxation Commr.,* Rajinder Singh ; *Chief Conservator of Forests,* R. S. Sehrawat ; *Registrar of Co-op. Socs.,* Dharender Kumar ; *Inspector-Genl. of Police,* Man Mohan Singh ; *Inspector-General of Prisons,* Vacant ; *Dirs.,* S. Y. Quraishi (*Pub. Relations & Grievances*) ; Dr. Ghanshyam Sharma (*Health Services*) ; O. P. Bhardwaj (*Pub. Instrn.*) ; Gian Chand (*Sports*) ; A. K. Sinha (*Agri.*) ; J. S. Grewal (*Animal Husb.*) ; Dr. D. K. Kaushik (*Fisheries*) ; J. K. Duggal (*Lotteries*) ; N. K. Garg (*Small Savings*) ; J. D. Gupta (*Tourism*) ; S. L. Dhani (*Indl. Trg.*) ; K. R. Punia (*Inds.*) ; I. C. Gupta (*Tech. Edn.*) ; G. Madhavan (*Emp.*) ; B. P. Sehgal (*Food & Supplies*) ; R. S. Kailey (*Social Welfare*).

High Court (*Given under Punjab*).

HIMACHAL PRADESH, Simla.

Governor: Aminuddin Ahmed Khan.

Ministers

Chief Minister in charge of Gen. Adm., Home & Personnel, Plng., Finance, Pub. Relations, Univ. Edn., etc., Shanta Kumar ; *Public Works, Tourism, Health & Family Welfare, Irrigation, etc.,* Kishori Lal ; *Inds., Labour, Emp. & Tech. Edn., etc.,* Daulat Ram Chauhan ; *Forests, Co-opn., Tribal Devpt.,* Devi Singh ; *Agri., Animal Husb., Fisheries, Housing, etc.,* Bachittar Singh.

Ministers of State

Food & Supplies, Law, Kum. Shyama Sharma ; *Panchayats, Parl. Affairs, etc.,* Roop Singh.

Secretariat

Chief Secretary (Home, Personnel, Admve. Reforms, Gen. Adm., Pub. Relations, etc.), L. Hmingliana Tochhawng ; *Secs.,* H. S. Dubey (*Revenue, Relief & Rehab., etc.*) ; B. C. Negi (*PWD., Irri., Edn., etc.*) ; Anag Pal (*Agri., Animal Husb., Fisheries, etc.*) ; A. N. Vidyarthi (*Health, Ayurveda, Labour & Emp., Welfare, etc.*), Attar Singh (*Transport, Food & Supplies, L.S.G., Housing*) ; Jai Chand [illegible] (*Law*) ; S. K. Alok (*Finance, Plng., Econ. & Stats.*).

Principal Officials

Commr. for Transport & Tourism, P. C. [illegible] ; *Commr. for Tribal Devpt.,* M. S. Mukherjee ; *Commr. for* [illegible] *Forests, etc.,* R. C. Gupta ; *Excise & Taxation Commr.,* Dev Swaroop ; *Chief Conservator of Forests,* [illegible] ; *Inspector-Genl. of Police,* L. J. S. [illegible] ; *Registrar Co-op. Socs.,* Smt. C. P. Sujaya ; *Dirs.,* A. K. [illegible]

Rajendra Bhattacharya (*Labour Emp. & Trg.*), A. K. Mahopatra (*Vigilance*) ; C. D. Parshere (*Welfare & Inspector Genl. of Prisons*) ; Swatantra Singh (*Panchayati Raj-cum-Rural Intg. Devpt.*) ; Dr. B. S. Jogi (*Agri.*); C. S. Negi (*Animal Husb.*) ; K. Pandya (*Health Services*) ; Miss B. Bhagat (*Ayurveda*) ; B. L. Handa (*Edn.*) ; S. K. Sood (*Civil Supplies*) ; R. S. Bhatnagar (*Economics & Stats.*) ; Chattar Singh Panwar (*Pub. Relations*) ; R. P. Asotra (*Fisheries*).

High Court, 'Ravenswood', Simla 171001.

Ag. Chief Justice, T. U. Mehta ; *Judge :* Chet Ram Thakur ; *Registrar,* H. D. Kainthla.

JAMMU & KASHMIR, Srinagar.

Governor : L. K. Jha.

Ministers

Chief Minister in-charge of Gen. Adm., Home, Health & Family Plng., Medical Edn., Inf. & Pub., Labour, Social Welfare, O & M, Anti-Corruption and Tourism, Haj Work & Auqaf, etc., Sheikh Mohammad Abdullah ; *Finance, Excise, Taxation, Edn., Libraries, Museums, Plng., Relief & Rehab. etc.,* Devi Dass Thakur ; *Roads & Bldgs., Irrigation & Flood Control, Pub. Health Engg., Power & Ladakh Affairs, etc.,* Sonam Narboo ; *Transport, Food & Supplies, etc.,* Ghulam Mohammed Shah ; *Forests, Game & Fisheries, etc.,* Mohan Kishen Tiku ; *Industries & Commerce, Geology & Mining, etc.,* Ghulam Nabi Kochak.

Ministers of State

Health, Dr. Harbhajan Singh ; *Co-opn.,* Sh. Moh. Ashraf Khan ; *Animal Husb.,* Mian Bashir Ahmed ; *School Edn.,* Sh. Mohd. Shafi ; *Transport,* Ghulam Mohd. Bhaderwahi ; *Ind.,* Ghulam Qadir Mir ; *Food & Supplies,* Parmanand ; *Law,* Tilak Raj Agri.

Deputy Ministers

Labour & Social Welfare, Hissam-ud-Din Bandey ; *Organisation & Methods,* Abdul Rashid Shaheen ; *Tourism,* Mohammed Dilawar Mir ; *Comm. Devpt. & Co-opn.,* Mohammed Hussain ; *Housing & Urban Devpt.,* Ghulam Din Shah ; *Roads & Bldgs.,* Bashir Ahmed Kitchlu ; *Forests,* Munshi Habibullah ; *Irri. & Flood Control,* P. N. Raju.

Secretariat

Chief Secretary, Agha Syed Muzaffer ; *Addl. Chief Secy., and Plng. Commr.,* Noor Mohammad ; *Home Secy.,* Inder Dev Sharma ; *Secs.,* Sheikh Ghulam Rasul, Ali Mohammad Lanker (*Finance*) ; M. L. Sopory (*Housing, Urban Devpt.*) ; Mohammad Amin (*Health and Medical Edn., Labour & Social Welfare*) ; Ghulam Ahmed (*Inf. & Auqaf & Secy. to Chief Minister*) ; Ghulam Rasool Leharwal (*Pub. Works*) ; Ajit Singh (*Parl. Affairs, O & M, Estates*) ; Qazi Mohammad Afzal (*Commr. of Devpt.*) ; Mrs. S. Z. Ahmed (*Tourism*) ; Ram Chand Bhatt (*Law*) ; Abdul Hamid Khan (*Edn.*) ; P. Khajuria (*Emp., Adm. Reforms & Inspections*) ; Mehmud-ur-Rehman (*Agri.*) ; N. A. Masoodi (*Forests*) ; Satya Bhushan (*Edn. & Comm.*).

Principal Officials

Financial Commr., Sheikh Ghulam Ahmed ; *Divnl. Commrs.,* Ghulam Mustafa Khan (*Kashmir*) ; D. N. Kotwal (*Jammu*) ; *Devpt. Commr., Ladakh :* S. A. Rizvi ; *Inspector-Genl. of Police,* D. N. Kaul ; *Inspector-Genl. of Transport,* M. M. Wazir ; *Chief Conservator of Forests.,* A. R. Khan ; *Controller, Tawaza,* A. R. Khalil ; *Dirs.,* D. N. Kachru (*Tourism*) ; Bakshi Ghulam Ali (*Inf.*) ; G. L. Simbali (*Agri.*) ; Dr. V. D. Gupta (*Sheep Breeding*) ; Mir Inayatullah (*Game & Preservation*) ; Nissar Ahmed (*Fisheries*) ; Altaf Hussain (*Inds. & Commerce*) ; *Registrar, Co-operatives,* M. S. Adhrabi.

High Court, Srinagar 190001.

Chief Justice, Mian Jalal-uddin ; *Judges,* Dr. Adarsh S. Anand, Iqbal K. Kotwal, G. M. Mir ; *Registrar,* K. K. Gupta.

KARNATAKA, Bangalore.

Governor : Govind Narain.

Ministers

Chief Minister, D. Devaraj Urs ; *Revenue,* B. Basavalingappa ; *Industries,* Azeez Sait ; *Agri. & Parl. Affairs,* K. H. Ranganath ; *Finance,* S. M. Yahya ; *Rural Devpt.,* K. Prabhakar ; *Transport & Tourism,* R. Gundu Rao ; *Law, Social Welfare, etc.,* L. G. Havnoor ; *Mun. Admn.,* H. C. Srikantiah ; *Forests & Food,* G. Rame Gowda ; *Labour & Excise,* R. S. Patil ; *Health & Family Welfare,* M. Mallappa ; *P.W.D.,* S. Bangarappa ; *Edn.,* B. Subbayya Shetty. *New Ministers :* V. Kushnoor, D. B. Chandre Gowda, K. B. Shivaiah.

Ministers of State

Women & Child Welfare, Smt. Manorama Madhwaraj; *Inf. & Youth Services,* K. H. Srinivas ; *Housing,* P. F. Rodrigues *Regulated Mkts.,* A. B. Jaknoor. *New Min. of State :* N. Basavaiah.

Secretariat, Vidhana Soudha, Bangalore 560001.

Chief Secy., N. Narasimha Rau ; *Secs.,* K. S. N. Murthy (*Agri.*) ; B. S. Hanuman (*Commerce & Inds.*) ; D. J. Balaraj (*Devpt.*) ; C. B. D'Mello (*Edn.*) ; M. K. Venkatesan (*Finance*) ; A. Muniswamy Gowda (*Food*) ; R. A. Naik (*Home*) : R. G. Desai (*Law*) ; P. R. Naik (*Pub. Works*) ; B. S. Srikantaiah (*Revenue*) ; Samuel Appaji (*Health*) ; R. Sampath Kumaran (*Housing & Urban Devpt.*) ; R. Ananda Krishna (*Plng.*) ; K. R. Ramachandran (*Social Welfare*).

Principal Officials

Dirs. : Dr. R. Dwarkanath (*Agri.*) ; Dr. K. Nanjaiah (*Animal Husb.*) ; S. Manchaiah (*Pub. Instruction*) ; R. L. Shreshta (*Techn. Edn.*) ; M. Jayaraj (*Fisheries*) ; Dr. Y. Rudrappa (*Health & Family Welfare*) ; M. Krishnan (*Inds.*) ; M. B. Nanjappa (*Bureau of Economics & Stats.*) ; S. S. Meenakshisundaram (*Sericulture*) ; B. K. Bhattacharya (*Food Supplies*) ; H. K. Shivananda (*Emp. & Trg.*) ; R. Ananda Rao (*Inf.*) ; G. Shivashankar (*Mines and Geology*) ; Vacant (*Tourism*) ; Joginder Singh (*Youth Services*) ; Govindappa (*Town Plng.*) ; Mrs. Veena Sriram (*Women's & Children's Welfare*) : *Registrar of Co-op. Socs.,* A. A. Shantamallappa ; *Inspector-Genl. of Police,* Albert Manoraj ; *Labour Commr.,* P. D. Shenoy ; *Drugs Controller,* K. N. Shanbhogue ; *Transport Commr.,* D. G. Deshmukh : *Chief Conservators of Forests,* G. R. Mavinkurve, R. R. Parvathikar.

High Court, Atara Kacheri Bldgs., Bangalore 560001.

Chief Justice, D. M. Chandrasekhar ; *Judges,* K. Bhimiah, V. S. Malimath. S. R. Range Gowda, E. S. Venkataramiah, K. Jagannatha Shetty, M. S. Nesargi, M. K. Srinivasa Iyengar, M. N. Venkatachaliah, M. Rama Jois, K. S. Puttaswamy, P. P. Bopanna, N. Venkatachala, Narayan Rai Kudoor ; *Addl. Judges,* N. Venkatachala, G. N. Sabhait, N. D. Venkatesh ; *Registrar,* R. C. Castelino ; *Advocate-General,* R. N. Byra Reddy.

Karnataka State Board for Prevention & Control, of Water Pollution, Utility Bldg., M. Gandhi Rd., Bangalore 560001.

Karnataka State Khadi & Village Industries Board, 5, Seshadri Rd., Bangalore 560009.

Karnataka State Social Welfare Advisory Board, 149/34, N. H. School Rd., Bangalore 560004.

Water Supply & Sewerage Board, Combined Adm. Bldg. Complex, Bangalore 560009.

KERALA, Trivandrum.

Governor : Mrs. Jothi Vencatachellum.

Ministers

Chief Minister in charge of Gen. Adm., Plng., Inds., etc., P. K. Vasudevan Nair ; *Revenue & Co-opn.,* Baby John ; *Harijan Welfare Devaswem & Comm. Devpt.,* Damodaran Kalassery ; *Inds., etc.,* P. S. Srinivasan ; *Inf. & Finance,* S. Varadarajan ; *Food & Civil Supplies,* T. S. John ; *Forests,* K. P. Prabhakaran ; *Home,* K. M. Mani ; *Transport,* K. Narayana Kurup ; *Law, Labour & Housing,* M. K. Raghavan ; *Pub. Works, etc.,* K. Pankajakshan ; *Agriculture,* A. L. Jacob ; *Edn. & Tourism,* C. H. Mohammed Koya ; *Local Self-Govt.,* K. Avukaderkutty Naha.

Secretariat, Trivandrum 695001.

Chief Secretary, G. Bhaskaran Nair ; *Land Use Commr.,* S. Ananthakrishnan ; *Spl. Secy., G.A.D.,* Zacharia Mathew; *Secs.,* N. Krishnan Nair (*Agri.—Addl.*) ; C. P. Ramakrishna Pillai (*Pub. Works—Spl.*) ; K. V. Rabindran Nair (*Finance*) ; M. S. K. Ramaswamy (*Inds.*) ; R. C. Choudhry (*Edn. — Addl.*) ; T. Madhava Menon (*Agri.—Spl. & Agri. Prodn. Commr.*) ; V. Venkitanarayanan (*Higher Edn. — Spl.*) ; C. P. Nair (*Taxes*) ; R. Ramachandran Nair (*Devpt.*) ; T. N. Jaychandran (*Agri.—Addl.*) ; J. S. Badhan (*Labour*); R. Parameshwaran Nair (*Finance—Addl.*); S. Padmakumar (*Revenue—Spl.*) ; K. P. P. Nambiyar (*Inds.*) ; N. Gopalakrishnan Nair (*Local Adm.—Spl.*) ; Dr. P. K. Gopalakrishnan (*Plng. & Economic Affairs*) ; P. M. Abraham (*Food—Spl.*) ; J. M. Jesudasan (*Home & Vigilance—Spl.*) ; K. Viswanathan Nair (*Law*) ; N. R. Augustine (*G.A.—Addl.*).

Principal Officials

Dirs., C. K. K. Panicker (*Agri.*) ; Dr. P. K. Nambiyar (*Animal Husb.*) ; Dr. P. A. Nair (*Bureau of Econ. & Stats.*) ; T. R. Subbayan (*Coll. Edn.*) ; K. V. K. Menon (*Emp. & Trg.*) ; S. N. Rao (*Fisheries*) ; V. K. Balakrishna Menon (*Harijan Welfare*) ; Dr. K. Balaraman (*Health Services*) ; K. E. George (*Homœo*) ; Capt. P. K. R. Nair (*Ports & Marine Adviser to Govt.*) ; Thampi Thomas (*Inds. & Comm.*) ; V. K. Chandrasekharan (*Lotteries*) ; Dr. V. Arjunan (*State Instt. of Malayalam Encyclopaedia*) ; Jacob Kurian Thomas (*Mining & Geology*) ; S. Prabhakaran Potti (*Museums & Zoos*) ; K. Uppiliappan (*Pub. Instrn.*) ; T. K. Rajasekharan (*Pub. Relations*) ; K. P. Thevan (*Small Savings*) ; V. N. Raghava Panicker (*Social Welfare*) ; K. K. Panicker (*Soil Conservation*) ; Dr. S. Vasudev (*Tech. Edn.*) ; K. V. Moidu (*Tourism*) ; P. K. Sivanandan (*Tribal Devpt.*) ; V. Subramaniam (*Vigilance Investigation*) ; K. N. Balakrishnan Nair (*Water Transport*) ; *Commrs.,* P. M. Abraham (*Civil Supplies*), S. Krishna Kumar (*Inds.*) ; V. Krishnamoorthy (*Labour*) ; *Drugs Controller,* D. Kumaran Nair ; *Registrar of Co-op. Socs.,* Babu Jacob ; *Chief Conservators of Forests,* P. T. Devassy, K. Karunakaran Nair (*Devpt.*) ; *Inspector-Genl. of Police,* T. A. Sankara Iyer ; *Inspector-Genl. of Prisons,* P. Gopala Menon.

Greater Cochin Development Authority, Cochin 682020.

Kerala Khadi & Village Industries Board, Perumthanni, Trivandrum 695008.

Kerala Livestock Devpt. & Milk Marketing Board, 9/963, 'Kailas', Sasthamangalam, Trivandrum 695010.

Kerala State Board for Prevention and Control of Water Pollution, Kawdiar, Trivandrum 695003.

High Court, Ernakulam, Cochin 682011.

Chief Justice, V. P. Gopalan Nambiyar ; *Judges,* V. Balakrishnan Eradi, P. Narayana Pillai, P. Su Potti, N. D. P. Namboodiripad, G. Viswanatha Iyer, T. Khalid, K. Bhaskaran, George Abraham Vadakkel, T. Chandrasekhara Menon, Miss P. Janaki Amma, K. K Narendran, G. Balagangadharan Nair, S. K. Kader, T. Kochu Thomman, M. P. Menon (*Addl.*) ; *Registrar,* L. R Menon ; *Advocate-General,* M. M. Abdul Khadir.

MADHYA PRADESH, Bhopal.

Governor : C. M. Poonacha.

Ministers

Chief Minister in charge of Gen. Adm., Publicity, Irri., Home (Gen.), Economics & Stats., etc., Virendra K Sakhlecha ; *Electricity, Commerce & Inds.,* Kailash J ; *Finance, etc.,* Ramhit Gupta ; *Pub. Health & Family Welfare,* Shitala Sahai ; *Panchayat & Social Welfare, etc.,* Haribhau Joshi ; *Forests,* Yeshwantrao Meghaw ; *Revenue, Co-opn., etc.,* Laxminarayan Sharma ; *Pub. Works,* Jabarsingh ; *Agri.,* Shivprasad Chanariya ; *School Edn.,* Umrao Singh ; *Social Welfare,* Smt. Jayashree Bannerjee ; *Pub. Health Engg., Local Govt.,* Ram Singh ; *Harijan Welfare,* Sakharam Devkaran P ; *Food & Civil Supplies,* Sitaprasad Sharma ; *To Archaeology,* Anupsingh Marawi ; *Tribal Welfare,* Bal Kashya ; *Home (Police),* Prabhunarayan Tripathi ; *C Edn.,* Laxminarayan Yadav ; *Jail,* Pawan Diwan ; *R Wagf Board,* Yakub Rajwani ; *Language, Plng.,* Ja Bahadur Singh.

Ministers of State

Housing, Law & Leg. Affairs, etc., Rajendra Dharkar ; *Irri., Home (Genl.),* Manharanlal Pande ; *Labour, etc.,* Jagdish Gupta ; *Edn.,* Vibhash Chandra Bannerjee ; *Pub. Health & Family Welfare,* Dr. Parshuram Sahu ; *Agri.,* Nathuram Ahirwar ; *Separate Revenue,* Sharaschandra Jhariya ; *Pub. Works,* Smt. Savita Bajpevi ; *Co-opn.,* Ramlal Chandrakar ; *Food & Civil Supplies,* Thakur Darbar Singh ; *Plng., Economics & Stats.,* Ramashankar Singh.

Parliamentary Secretaries

Comm. & Ind., Babulal Jain ; *Pub. Health,* Dr. G shankar Shejwar ; *Edn., Social Welfare,* Vikram Verma ; *Agri.,* Lochanlal Thakre ; *Rehab., Tourism,* Arjunsingh Dhuru ; *Revenue,* Nahkiram Kanwar ; *Tribal Welfare,* Madhosingh Dhruwa ; *Irri.,* Jahar Singh Sharma.

Secretariat

Chief Secretary, K. L. Pasricha ; *Addl. Chief Secy.,* Birbal ; *Secs.,* R. K. Pandey (*Home & Jails*) ; A. K Pandya (*P.W.D. & P.H.E.*) ; R. K. Tikku (*Irri. & Electricity*) ; S. C. Bhear (*Edn.*) ; Vinay Malik (*Pub. Health & Family Welfare*) ; R. C. Jain (*Comm. & Inds.*) ; B. Heerji (*Tribal & Harijan Welfare*) ; N. V. Kr (*Finance*) ; Manohar Bhatt (*Law*) ; S. K. S. C (*Revenue*) ; D. G. Bhave (*Panchayat & Social Welfare*) ; S. B. Lal (*Agri., Co-opn., Food & Civil Supp*) ; [illegible] O. P. Mehra ([illegible]) ; N. B. Lobo (*Agri. & Co-opn.*) ; V. K. Pandit (*Finance*) ; Sumer Singh (*Forests & Tourism*) ; A. S. Das (*Finance & Plng.*) ; Vinay Sh (*Edn.*) ; K. S. Sharma (*Home & Jails*) ; G. V (*G.A.D.*) ; A. K. Chandra (*Comm. & Ind., etc.*) ; S. E. Krishnan (*G.A.D.—Pub.*).

Principal Officials

Commrs., J. N. Kaul (*Bhopal Dn.*), P. K. Lahari (*Gwalior Dn.*), R. K. Khanna (*Indore Dn.*), S. K. Sharma (*Ujjain Dn.*), Jagdish Saxena (*Sagar Dn.*), P. R. Kapoor (*Raipur Dn.*), S. M. Jambolkar (*Bilaspur Dn.*), B. M. [illegible] (*Jabalpur Dn.*), S. L. Gupta (*Tawa Ayacut, Hoshangabad*), L. C. Nigam (*Chambal Ayacut, Gwalior*), B. S. Seth (

Dn.), Fakir Chand (*Finance*), K. S. Bhatnagar (*Labour*) ; *Registrar, Co-op. Socs.*, Pradeep Baijal ; *Conservator-in-Chief of Forests*, S. D. N. Tiwari ; *Gen. Manager, MPSRTC.* R. S. Khanna ; *I. G. of Police*, Vacant ; *I. G. of Prisons*, Ravindra Verma ; *Dirs.*, S. C. Vaish (*Tribal Welfare*) ; B. K. Taimini (*Inds.*) ; P. C. Sen (*Panchayats & Social Welfare*) ; Guru Prasad Dubey (*Inf. & Publicity*) ; Ashok Bajpeyi (*Pub. Instrn.*) ; S. P. Singh Chauhan (*Economics & Stats.*) ; A. V. Singh (*Vet. Services*) ; B. K. Jajoria (*Food & Civil Supplies*) ; Dr. Prakash Narain (*Health Services*) ; K. Y. Shrikhande (*Pub. Health & Family Welfare*) ; Dr. P. S. Parsai (*Agri.*) ; Dr. K. V. Kamath (*Tech. Edn.*) ; S. K. Bagchi (*Tourism*) ; G. P. Dubey (*Fisheries*) ; M. D. Khare (*Archaeology*).

High Court, Jabalpur 482007.

Chief Justice : G. P. Singh ; *Judges :* K. K. Dube, N. C. Dwivedi, J. S. Verma, M. L. Malik, U. N. Bachawat, C. P. Sen, S. S. Sharma, J. P. Bajpai, C. P. Singh ; *Indore Bench :* G. L. Oza, S. R. Vyas, G. G. Sohani, B. R. Dube, P. D. Mulye, C. P. Singh (*Addl.*) ; *Gwalior Bench :* C. M. Lodha, R. L. Murab, A. R. Navkar, S. J. Surana, H. G. Mishra.

MAHARASHTRA, Bombay.

Governor : Sadiq Ali.

Lok Ayukta of Maharashtra, Vacant ; **Upa Lok Ayukta,** S. V. Bhave. (*Office*) : Bungalow No. A-4, Madame Cama Rd., Bombay 400032.

Ministers

Chief Minister in charge of Gen. Adm., Home, etc., S. G. Pawar ; *Revenue & Rehab.*, Uttamrao L. Patil ; *Finance, Plng. & Energy*, S. B. Chavan ; *Inds., Animal Husb., Dairy Devpt., Fisheries*, Sundarrao A. Solanke ; *Co-opn.*, N. D. Patil ; *Emp. & Manpower Devpt., Tech. Edn., etc.*, Nihal Ahmed ; *Agri. & Rural Devpt.*, Ganpatrao Deshmukh ; *Social Welfare, etc.*, Arjunrao Kasture ; *Edn., Cult. Affairs, Sports, etc.*, Sadanand S. Varde ; *Urban Devpt., etc.*, Hashu P. Advani ; *Pub. Works, etc.*, Jagannathrao Jadhav ; *Irri., Law & Judiciary, etc.*, Govindrao W. Adik ; *Labour & Tourism*, Sushilkumar S. Shinde ; *Housing, etc.*, Bhausaheb S. Surve ; *Pub. Health & Family Welfare*, Dr. Smt. Pramila Tople ; *Food & Civil Supplies, Transport*, Hashmukhbhai Upadhyaya ; *Forests, Prohibition, Excise*, Chhedilal Gupta ; *New Minister :* R. A. Patil.

Ministers of State

Gen. Adm., Home, Bhai Vaidya ; *Emp., Tech. Edn., Tourism, etc.*, Datta Meghe ; *Co-opn. & Edn.*, Shankarrao D. Kale ; *Rural Devpt. & Rehab.*, Prataprao Bhosle ; *Forests & Tribal Welfare*, Dilversingh Padvi ; *Finance, Labour, Aukaf, Protocol*, M. Ishaq Jamkhanwala ; *Revenue & Plng.*, Kishanrao Deshmukh ; *Transport, Food & Civil Supplies, etc.*, Sakharam G. Nakhate ; *Agri.*, Shripatrao Bondre ; *Urban Devpt.*, Bhaurao Mulak ; *Animal Husb., Dairy Devpt., etc.*, B. L. Patil ; *Social Welfare, Housing*, Smt. Shanti Naik ; *Inds., Cult. Affairs, Sports, etc.*, Vinayakrao Patil ; *Energy, Prohibition & Excise*, Dr. Padamsinh B. Patil ; *Irri., etc.*, Shivajirao B. Patil : *Pub. Works*, B. D. Dhakane ; *Pub. Health & Family Welfare*, N. D. Gedekar.

Secretariat, Mantralaya, Bombay 400032.

Chief Secretary, L. B. Lulla ; *Addl. Chief Secy.*, K. K. Moghe ; *Secs.*, K. K. Uppal (*G.A.D.*) ; N. Raghunathan, L. C. Gupta (*Agri. & Co.-opn.*) ; R. D. Pradhan, P. V. Nayak (*Home*) ; P. G. Salvi, A. N. Batabyal (*Revenue & Forests*) ; V. Prabhakar, R. B. Chari (*Finance*) ; P. D. Kasbekar, K. K. Uppal (*Inds., Energy & Labour*) ; J. Innocent (*Rural Devpt.*) ; G. H. Lalwani, N. V. Sunderraman (*Urban Devpt. & Pub. Health*) ; D. M. Sukthankar (*Edn. & Youth Services*) ; V. Venkatesan (*Plng.*) ; Smt. Malti Tambay-Vaidya, S. I. Jambunathan (*Social Welfare, Cult. Affairs, Sports & Tourism*) ; B. K. Halve (*Food & Civil Supplies*) ; S. S. Tinaikar (*Pub. Works & Housing*) ; M. D. Kale (*Irri.*) ; M. A. Dhotre (*Law & Judiciary*).

Principal Officials

Accommodation Controller, D. M. Torgal ; *Inds. Commr.*, P. S. Palande ; *Registrar of Firms*, S. B. Shinde ; *Charity Commr.*, V. G. Nirgude ; *Chief Conservator of Forests (Pune)* ; R. B. Mujumdar ; *Inspector-Genl. of Prisons (Pune)*, V. K. Toraskar ; *Chmn., M. S. Board of Secondary Edn.*, U. T. Bholande ; *Chmn., Maharashtra Housing Board*, Vacant ; *Chmn., M.S.E.B.*, S. N. Mishra ; *Dirs.*, V. V. Chiplunkar (*Edn. — Pune*) ; Dr. V. V. Kayarkar (*Health Services*) ; S. Chopade (*Agri. — Pune*) ; A. G. Kalwar (*Fisheries*) ; S. P. Phadke (*Animal Husb. — Pune*) ; V. R. Andurkar (*Ayurved*) ; B. N. Sathye (*Emp.*) ; V. L. Phatak (*Medical Edn. & Research*) ; M. B. Choube (*Tourism*) ; M. K. Hussein (*Sports & Youth Services, Pune*) ; *Commrs.*, A. M. Doesthale (*Prohibition & Excise*) ; V. D. Deshmukh (*Food & Drug Adm.*) ; B. L. Sholake (*Labour*) ; S. Ramamoorthy (*Sales Tax*) ; S. K. Thakkar (*Co-opn. & Registrar of Co-op. Socs. — Pune*) ; *Divnl. Commrs.*, K. G. Paranjape (*Bombay Divn.*) ; S. P. Mohoni (*Pune Divn.*) ; D. N. Kapoor (*Nagpur Divn.*) ; A. A. Alvi (*Auranggabad Divn.*).

Bombay Metropolitan Regn. Devpt. Authority, New Adm. Offices Bldg., 18th Floor, Madame Cama Road, Bombay 400021.

Housing Urban Renewal & Ecology Board, Bombay Metropolitan Regn. Development Authority, 18th flr. New Adm. Offices Bldg., Madame Cama Rd., Bombay, 400021.

Maharashtra Prevention of Water Pollution Board' Marthanda Bldg., Worli, Bombay 400018.

Maharashtra State Khadi & Village Industries Board, 19/21, Manordas St., Bombay 400001.

Bombay Port Trust, Shoorji Vallabdas Marg, Bombay 400038. *Chmn.*, B. C. Cariappa ; *Dy. Chmn.*, N. R. Mane.

High Court, Mayo Rd., Bombay 400032.

Chief Justice, B. N. Deshmukh ; *Judges :* V. S. Deshpande, D. P. Madon, M. N. Chandurkar, M. H. Kania, S. K. Desai, B. A. Masodkar, C. S. Dharmadikari, P. S. Shah, N. B. Naik, D. M. Rege, R. L. Aggarwal, B. Lentin, P. B. Sawant, C. T. Dighe, B. C. Gadgil, M. D. Kambli, A. A. Ginwala, R. A. Jahagirdar, S. C. Pratap, M. P. Kanade, S. P. Bharucha, M. L. Pendse, S. P. Kurdukar ; *Addl. Judges*, Mrs. S. V. Manohar, R. D. Tulpule, V. V. Joshi, D. N. Mehta, V. S. Kotwal, M. S. Jamdar, M. R. Waikar ; *Prothonotary & Sr. Master*, A. P. Yajnik ; *Registrar*, D. B. Deshpande ; *Advocate-General*, Raja S. Bhonsale ; *Sheriff of Bombay, Old Sectt. Bldg., Bombay* 400032 ; Ram Kumar Batra ; *Dy. Sheriff*, S. V. Kondaskar.

Office of the Inspector-General of Police, Old Secretariat Bldg., II Floor, Bombay 400032.

Inspector-General of Police, V. V. Chaubal ; *Spl. Inspectors-Genl. of Police*, M. G. Gavai, S. Baraokar ; *Dy. Inspector-Genl. of Police*, V. A. Deshmukh ; *Asstt. Inspectors-Genl. of Police*, G. N. Ubale, G. Sudhir Kumar ; *P.R.O.*, B. S. Ashtikar.

Office of the Director, Vigilance, Anti-Corruption & Prohibition Intelligence Bureau and Spl. Inspector-General of Police, M.S., Crescent House, 19, Walchand Hirachand Mrg., B. Estate, Bombay 400038.

Director, V.A.C. & P.I. Bureau & Spl. Inspector-General of Police, D. A. Khamgaonkar ; *Dy. Commrs. of Police/Supdts. of Police*, S. K. Seth, M. G. Naravane, A. D. Naniwadekar.

Greater Bombay Police Force, Dr. D. Naoroji Rd., Opp. Jyotiba Phule Market, Bombay 400001.

Commissioner of Police, M. S. Kasbekar ; *Addl. Commrs. of Police* ; D. Ramachandran, P. R. Parthasarathy, Mrs. U. G. Advani, M. L. Wadhwa ; *Dy. Commrs. of Police*, S. V. Baraokar, A. S. Inamdar, A. V. B. Mudaliar, M. S. Nadkarni, A. E. Thorley, P. S. Pasricha, S. S. Suradkar, B. P. Bam, M. M. Bankar, L. K. Dalvi, V. N. Deshmukh, E. W. Saxby, S. T. Raman, B. A. Minocher Homji.

Directorate-Genl. of Information & Public Relations, New Administrative Bldg., 13th Flr., West Wing, Opp. Mantralaya, Bombay 400020.

Chief Dir. of Inf. & Public Relations : Mohan R. Patil ; *Directors*, Vacant (*Inf.*), Dilip Jamdar (*Films*), M. I. R. Mathur (*Spl. Pub. & Pubns. & Addl. Chief Dir.*).

Maharashtra State Road Transport Corporation, Maharashtra Vahatuk Bhavan, Dr. A. Nair Rd., Bombay 400008.

Chmn., B. N. Adarkar ; *Vice-Chmn. and Gen. Manager*, V. T. Chari ; *Chief Accounts Officer*, L. G. Agashe ; *Chief Security Officer*, S. M. Paranjpe ; *Dy. Gen. Managers.*, D. R. Chavan (*Traffic*) ; G. G. Phadke (*Mech. Engg.*) ; V. S. Kanitkar (*Stores & Purchase*) ; S. L. Pradhan (*Civil Engg.*) ; *Manager* (*Personnel*), G. M. Chavan ; *Manager* (*I. O. & M.*), Shanti Bhushan ; *Pub. Relations Officer*, Shashikant Gupte ; *Chief Labour Officer*, P. S. Nerurkar ; *Secretary*, B. G. Wavikar ; *Chief Statistician*, S. R. Gokhale ; *Legal Adviser*, D. Y. Rane.

Directorate of Economics and Statistics, D. D. Bldg., Old Custom House, Bombay 400023.

Dir., S. M. Vidwans ; *Addl. Dirs.*, V. D. Mahajan, K. S. Narayanan, S. G. Moghe ; *Jt. Dir.*, U. K. Koundinya.

Office of the Dairy Development Commissioner, Barracks, Opp. 'Yogakshema', Jeevan Bima Mrg., Bombay 400020.

Dairy Development Commissioner, K. Padmanabhaiah ; *Addl. Dairy Devpt. Commr.*, Y. R. Karnik.

Office of the General Manager, Greater Bombay Milk Scheme, Worli Dairy, Bombay 400018.

General Manager, A. K. Phukan ; *Dairy Manager*, S. K. Tinaikar ; *Pub. Relations Officer*, C. R. Joshi.

Public Service Commission, Bank of India Bldg., Mahatma Gandhi Rd., Bombay 400023.

Chairman, Dr. K. G. Deshmukh ; *Secretary*, N. A, Prabhudesai.

Govt. of India Tourist Office, 123, Maharshi Karve Rd., Bombay 400020.

Director, Mrs. S. Jagannathan ; *Asstt. Directors*, Mrs. S. Kothary, Mrs. N. Malvi, H. M. Kamble, A. Bara.

B.E.S. & T. Undertaking, BEST House, Bombay 400039.

General Manager, P. B. Kerkar ; *Dy. Gen. Manager*, A. P. Shenoy ; *Secy.*, M. A. Joshi ; *Chief Engineer* (*Supply*), Vacant ; *Chief Traffic Manager*, K. C. Abdullah.

Central Railway, Hqrs. Office, Victoria Terminus, Bombay 400001.

General Manager, H. V. Samuel ; *Sr. Dy. Gen. Manager*, I. M. Sahni ; *Chief Plng. Officer*, J. R. Irani ; *Chief Pub. Relations Officer*, P. C. Johorey ; *Dy. Gen. Manager* (*General*), S. S. Srivastava ; *Chief Personnel Officer*, M. P. Bahadur ; *Addl. Chief Personnel Officer*, S. K. Datta ; *Chief Engr.*, B. R. Karnad ; *Chief Adm. Officer*, T. R. Subramaniam ; *Chief Engr.* (*Const.*), G. Limaye ; *F.A. & C.A.O.*, Ram Mohan Roy ; *Chief Op Supdt.*, V. D. Jog ; *Chief Comml. Supdt.*, K. V ; *Chief Claims Officer*, M. R. Malhan ; *Chief Worksh Engr.*, P. Nayyar ; *Chief Electl. Engrs.*, K. Sre A. Nandekeolyar (*Const.*) ; *Chief Signal & T Engrs.*, V. Parthasarathy, R. K. Dandekar (*Co* *Controller of Stores*, N. N. [illegible] *Medical Officer*, Dr. Braj Mohan ; *Chief Security O* S. V. Bhave ; *Chief Mech. Engr.*, Dil Raj Singh ; *Chief Bridge Engr.*, M. Z. Mirza.

Western Railway, Hqrs. Office, Churchgate, Bombay 400020.

General Manager, K. S. Ramaswamy ; *Sr. Dy. G Manager*, C. Prabhakaran ; *Chief Personnel Officer*, P. K. N. Swami ; *F.A. & C.A.O.s.* R. R. Sud, M. R. M (*Const.*) ; *Chief Pub. Relations Officer*, V. P. Malhotr *Chief Engrs.*, L. F. X. Freitas, T. N. Subr (*Const.*), M. R. Ranganathan (*Const.—Ahmedabad*) ; *Bridge Engrs.*, M. V. Basrur ; *Chief Track Engr.*, S. M. Joglekar ; *Chief Electl. Engr.*, K. P. Ramalingam ; *Chief Signal & Telecomm. Engrs.*, V. U. Shenai, T. S. Vard (*Const.*) ; *Chief Mech. Engr.*, Mohinder Singh ; *C Workshop Engr.*, M. K. Gamkhar ; *Chief Optg. Supdt.*, R. P. Singh ; *Chief Comml. Supdt.*, S. R. Sharma ; *Chief Claims Officer*, K. Y. Ranade ; *Controller of Stores*, N. M. Shah ; *Chief Safety Supdt.*, G. F. Velloze ; *Chief Secur Officer*, R. S. Chudasama ; *Chief Medical Officer*, Dr. Satyendra Singh ; *Chief Plng. Officer*, P. S. Chaudhari.

Railway Service Commission, Churchgate Stn. Bld 1st Floor, Bombay 400020.

Chmn., S. R. Kharat ; *Mem.-Secy.*, V. H. Vaishnav ; *Asst. Secy.*, P. Raghunathan.

Metropolitan Transport Project (Railways), Churchgate Stn. Bldg., Bombay 400020. *Chief Admve. Officer*, M. M. Agerwala.

MANIPUR, Imphal.

Governor : L. P. Singh.

Ministers

Chief Minister in charge of Home, Vigilance, Law, F & Civil Supplies, Pub., Inf. & Tourism, Edn., Pl etc., Yangmasho Shaiza ; *Finance, Revenue, Local Sel Govt.*, Md. Alimuddin ; *Inds., Labour*, S. Tombi Sing *Medical Health, Family Welfare, etc.*, Ngurdingliem. *Ministers :* Dr. L. Chandramani Singh, Naok Thangiam, Y. Yaima Singh.

Ministers of State

Co-opn., Food & Civil Supplies, W. Komol Singh ; *Edn. Law*, W. Nipamacha Singh ; *Electricity*, Kh. Nim Singh ; *Forests, Pub. Inf. & Tourism*, Md. Ashraf Al ; *Pub. Works, etc.*, R. K. Thekho.

Secretariat

Chief Secretary, H. S. Bhutalia ; *Director of Medical & Health Services*, Dr. P. K. Singh ; *Registrar, Co-op. Soc.*, S. I. Singson ; *Dir. of Inf. & Pub. Relations*, P. K. Verma ; *Finance Secy.*, C. K. Ramchandran. (*High C* Given under Assam.).

MEGHALAYA, Shillong.

Governor : L. P. Singh.

Ministers

Chief Minister in charge of Personnel & Admve., *Political, Home, G.A., Edn., etc.*, D. D. Pugh ; *Dy. C Minister in charge of Plng., Finance, Food & Civil Supplie etc.*, S. D. Khongwir ; *Law, Parl. Affairs, etc.*, M. N. Maja *Inds.*, P. R. Kyandiah ; *Agri., Irri., Animal H

B. Pakem ; *Health & Family Welfare, etc.*, J. D. Pohrmen ; *Transport & Fisheries*. B. W. Momin ; *Pub. Works, etc.*, Y. Fuller Lyngodh ; *Power, Mining & Geology, etc.*, H. Hadem ; *Tourism, Soil Conservation*, E. Iawphniaw ; *Town & Country Plng., Relief & Rehab., etc.*, Jackman Marak ; *Labour, Civil Defence, Social Welfare, etc.*, Jenden Ch. Marak ; *Forests, Pub. Relations, etc.*, Rowell Lyngdoh.

Secretariat

Chief Secretary, Ramesh Chandra, I.A.S. ; *Special Secs.*, J. C. Nampui (*Home, Revenue, Civil Defence, Comm. Devpt., etc.*) ; V. Ramakrishnan (*Plng. etc.*) ; M. D. Rapthap (*Tourism, etc.*) ; J. M. Jala (*Personnel, etc.*) ; *Secs.*, T. Aonok (*Border Areas, etc.*) ; F. Kharkongor (*P.W.D.*) ; N. K. Mukherjee (*Finance, etc.*) ; S. Marwein (*Transport, etc.*) ; P. C. Misra (*Health, etc.*,) ; J. M. Phira (*Edn., etc.*) ; S. N. Phukan (*Law, etc.*) ; K. K. Sinha (*Agri., etc.*) ; D. Singh (*Co-opn., etc.*) ; H. A. D. Sawian (*G.A.D. etc.*) *Commrs.*, C. N. S. Nair (*Tura*) ; T. W. Pakyntein (*Shillong*) ; J. S. Tayeng (*Jowai*) ; M. S. Pangtey (*Nongstoin*) ; J. P. Sing (*Williamnagar*).

(High Court : Given under Assam).

MIZORAM, Aizawl.

Lt. Governor : N. P. Mathur.

Secretariat

Chief Secretary, Surendra Nath ; *Secs.*, Lal Manzuala (*Health*) ; F. Pahnuna (*S.A.D. & G.A.D.*) ; Lalkhama (*Dev. Commr.-cum-Secy.*) ; Madan Jha (*Supply & Transport*) ; P. S. Bhatnagar (*Home & P.W.D.*) ; Lalchhuma (*Finance*) ; J. Wilson Sundara Raj (*Law & Judl.*) ; P. Rohmingthanga (*Ind.*).

Principal Officials

Inspector-Genl. of Police, V. P. Marwah ; *Dirs.*, Madan Jha (*Supply & Transport*) ; Dr. L. N. Tluanga (*Edn.*) ; S. K. Bishwas (*Agri.*) ; D. P. Borah (*Forests & Soil Conservation*) ; P. Lalnithanga (*Settlement & Land Records*) ; H. Raltawna (*Comm. Devpt.*) ; R. J. Jachuk (*Ind.*) ; R. L. Thanzawna (*Inf., Pub. Relations & Tourism*); Dr. Kapthuama (*Jt. Director, A. H. & Vet.*) ; *Dy. Commrs.*, R. C. Illango (*Aizawl*) ; F. Pahnuna (*Lunglei*) ; M. B. Rai (*Saiha*) ; *Liaison Offices*: Mizoram House, 24, Old Ballygunge Rd., Calcutta 700019 ; Mizoram House, E-3, Defence Colony Hostel, New Delhi 110024. Silchar (Cachar Dist.).

NAGALAND, Kohima.

Governor: L. P. Singh.

Secretariat

Chief Minister in charge of Home, Police, Gen. Adm., Political, etc., Vizol ; *Dy. Chief Minister in charge of Works & Housing, Pub. Health Engg., Plng.*, S. C. Jamir; *Finance, Revenue, Ind., Commerce, etc.*, Vamuzo ; *Agri. & Co-opn.*, Huska Sumi ; *Electricity, Geology & Mining, etc.*, L. Lungalang ; *Edn., Trg., etc.*, Shurhozelie ; *Forests, Social Welfare, etc.*, Noke Konyak ; *Transport & Communications, etc.*, Sentichuba ; *Excise, Relief & Rehab.*, K. Zungkum,

Ministers of State

Medical, Pub. Health & Family Welfare, Dr. Bendang Toshi ; *Vet., Animal Husb., Labour & Emp.*, K. L. Chishi ; *Civil Supplies, etc.*, R. S. Rengma ; *Pub., Inf., Tourism, Law, etc.*, Mhonshan Murry ; *Works, Housing, Jails*, Lhiweshelo Mero ; *Soil Conservation & Horti.*, Yopikyu. Dollenamo (*New Minister of State*).

Dy. Minister

Longnyiem.

Secretariat

Chief Secretary, N. I. Jamir ; *Devpt. Commr.*, I. Sashimeren ; *Spl. Secy. to the Governor*, P. N. Barua ; *Commr.*, Z. Obed ; *Agri. Prodn. Commr.*, N. I. Jamir ; *Secs.*, I. Longkumer (*Home*) ; L. L. Yaden (*Reforms*) ; M. P. Bhatnagar (*Finance*) ; M. H. Khan (*Law*) ; K. Tongpan Ao (*P.W.D.*), I. Toshi (*Supply*) ; Daniel Kent (*Edn.*) ; Abong Imlong (*Medical*) ; N. Zakhalu (*Transport*) ; T. C. K. Lotha (*Inds.*) ; Ahluwallia (*Forests*) ; C. N. Ngullio (*Inf., Pub. & Tourism*) ; *Dirs.*, I. Panger (*Agri.*) ; H. R-Rattan (*Inf., Pub. & Tourism*) ; Dr. S. Sekhose (*Animal Husb. & Vet.*) ; Laloo (*Supply*) ; K. Tengpang (*Works & Housing, etc.*) ; K. R. Pandey (*Edn.*) ; Odyuo (*Social Welfare*) ; K. M. Chadha (*Inds.*) ; Dr. S. K. Kochhar (*Health & Family Welfare*) ; Sashimeren Álier (*Economics & Stats.*); A. P. Mohanty (*Forests*) ; Sabu Meru (*Transport*) ; R. N. Kacker (*Geology & Mining*) ; A. Imkong Jamir (*Co-opn.*) ; *Inspector-Genl. of Police*, Shiva Swarup ; *Dy. Commrs.*, R. Ezung (*Kohima*) ; L. Colney (*Mokokchung*) ; R. L. Jamir (*Tuensang*) ; Binod Kumar (*Zunheboto*) ; Z. Sahkrie (*Mon*) ; S. B. Ghetri (*Wokha*) ; A. M. Gokhale (*Phek*).

(High Court : Given under Assam).

ORISSA, Bhubaneswar.

Governor : Dr. Bhagwat Dayal Sharma.

Ministers

Chief Minister in charge of Political, Services, Plng;, Co-ordn., Nilamani Routray ; *Revenue, Irri. & Power* (*Power*), *C.D., Social Welfare, etc.*, Pratap Ch. Mohanty,. *Agri., Co-opn., etc.*, Prahlad Mallick ; *Edn., Health. Family Welfare, etc.*, Pradipta Kishore Das ; *Finance*, Dr. Ram Prasad Mishra ; *Forests, Fisheries, Animal Husb., etc.*, Natabar Pradhan ; *Food & Civil Supplies, Law, Labour, Emp., etc.*, Biswabhusan Harichandan ; *Inds., Mining & Geology, Tourism, etc.*, Harischandra Bakshipatra ; *Urban Devpt., Excise*, Dr. Jahsketan Sahu.

Ministers of State

Tribal & Rural Welfare, Birabhadra Singh ; *Health & Forests, Fisheries, Animal Husb.*, Ghasiram Majhi ; *C.D., Agri., Co-opn., etc.*, Adwait Prasad Singh ; *Rural Devpt., Forests, Fisheries, Animal Husb., etc.*, Saharai Oram ; *Law, Labour, Emp., Housing*, Ignesh Majhi ; *Commerce, Transport, Home* (*Jails*), Harihar Swain.

Secretariat

Chief Secretary & Devpt. Commr. & Secy., P. & S., K. Ramamurthy ; *Agri. Prodn. Commr. & Spl. Secy.*, B. K. Mishra ; *Commr., Command Area Devpt. & Spl, Secy.*, P. Tripathy ; *Secs.*, S. M. Patnaik (*P. & C. & Addl. Devpt. Commr.*) ; S. K. Mohapatra (*Home*) ; Sovan Kanungo (*Finance*) ; S. Som (*Agr. & Co-opn.*) ; N. C. Beuria (*Forests, Fisheries, etc.*) ; R. N. Das (*Inds.*) ; S. K. Mahapatra (*Tourism & Cult. Affairs*) ; P. K. Patnaik (*Health & Family Welfare*) ; B. S. Ram Dorai (*Irri. & Power*) ; A. C. Padhi (*Works*) ; J. K. Battacharya (*Comm. & Transport, Mining & Geology*) ; Dr. B. N. Mishra (*Law*) ; H. N. Das Mohapatra (*Food & Civil Supplies*) ; U. N. Mallick (*Labour, Emp. & Housing*) ; P. Tripathy (*Rural Devpt.*) ; Gian Chand (*Edn.*) ; A. K. Roy (*T. & R.W.*) ; *Commrs.*, R. K. Mishra (*Revenue & Excise*) ; P. K. Dey (*Urban Devpt.*) ; *Spl. Liaison Commr. at New Delhi*, K. S. Ramachandra.

Principal Officials

Dirs., K. B. Verma (*C.D. & S.W.*) ; K. C. Mishra (*T. & R.W.*) ; D. Mohanty (*Mun. Admn.*) ; Ghanshyam Das (*Vigilance*) ; Dr. B. D. Pursty (*Mines*) ; Dr. C. Mishra (*Bureau of Stats. & Economics*) ; Dr. G. C. Sengupta (*Agri.*); Dr. N. R. Panigrahi (*Horticulture*) ; V. Patnaik (*Tourism, Pub. Relations & Cult. Affairs*) ; Prof. B. Das (*Pub.*

Instruction) ; A. Rath (*Export Promotion & Mktg.*) ; B. B. Mohanty (*Textiles*) ; P. S. Rao (*Emp.*) ; Dr. S. K. Mitra (*Health Services*) ; Dr. S. S. Ahmad (*Family Welfare*) ; *Inspector-Genl. of Prisons*, Babulal Agrawal.

High Court, Cuttack 753001.

Chief Justice, S. K. Ray ; *Judges*, S. Acharya, R. N. Mishra, B. K. Ray, K. B. Panda, P. K. Mohanti, N. K. Das ; *Registrar*, B. K. Behera ; *Advocate-General*, B. M. Patnaik.

PONDICHERRY, Pondicherry.

Lt.-Governor : Bidesh Tukaram Kulkarni.

Secretariat

Chief Secretary, E. S. Parthasarathy ; *Secs.*, C. Ramon (*Collector-cum Revenue Secy.*) ; P. M. Nair (*Finance, Elect. & Works*) ; P. L. Samy (*Health etc.*) ; Balbir Singh (*Local Adm. & Edn.*) ; A. Chandarsekhara Menon (*Law & Labour*).

Principal Officials

Inspector-Genl. of Police, T. R. Kakkar ; *Principal Dt. & Sessions Judge and Chief of Judl. Service*, David Annusamy ; *Dirs.*, J. Deivasigamani (*Pub. Works*) ; Dr. V. Sambasivam (*Health & Family Welfare*) ; Francis Nathan (*Agri.*) ; K. Raghunathan (*Animal Husb.*) ; P. S. Thirunavukkarasu (*Electricity*) ; K. Ramachandran (*Welfare of S. Castes & S. Tribes*) ; E. Purushothaman (*Fisheries*) ; Joseph Basil (*Inds.*) ; A. Mohanadoss (*Inf. Pub. & Tourism*) ; V. Venkatassamy (*Transport*) ; *Labour Commr.*, M. S. Bakkiam ; *Registrar of Co-op. Socs.*, S. Seetharaman ; A. Subbarayapillai (*Edn.*). *Administrators :* B. Douressamy (*Karaikal*) ; D. S. Negi (*Mahe*) ; V. Mahendroo (*Yanam*).

PUNJAB, Chandigarh.

(*Chief Commissioner, Chandigarh*, J. C. Aggarwal).

Governor : Jaisukhlal Hathi.

Ministers

Chief Minister in charge of Gen. Adm., Home, Vigilance, Irri. & Power, Prakash Singh Badal ; *Inds., Indl. Trg.*, B. D. Tandon ; *Devpt. & Panchayats*, S. Atma Singh ; *Excise & Taxation*, H. Abhilashi ; *Finance, Plng., etc.*, S. Balwant Singh ; *Co.-opn.*, S. Jaswinder Singh Brar ; *Food & Supplies*, S. Harbhajan Singh ; *Revenue*, J. J. S. Umrannangal ; *P.W.D., etc.*, S. Randhir Singh Cheema ; *Pub. Health, Social Welfare*, B. S. Kaur ; *Health & Family Welfare*, Des Raj ; *Agri.*, S. Balwinder Singh.

Secretariat

Chief Secretary and Secy., Vigilance, S. S. Puri ; *Secs.*, S. K. S. Narang (*Revenue*) ; N. Khosla (*Excise & Taxation*); S. Pramjit Singh (*Irri. & Power*) ; Dr. K. S. Gill (*Plng.*) ; R. C. Kapila (*Home Affairs*) ; R. P. Ojha (*Finance & Small Savings*) ; S. Joginder Singh (*Housing, Local Govt.*) ; S. K. S. Bains (*Devpt.*) ; Tejinder Khanna (*Food & Supplies*) ; F. G. Bala Krishnan (*Health & Family Welfare*) ; S. Hardayal Singh (*Pub. Health, Tech. Edn., etc.*) ; S. Manmohan Singh (*Pub. Relations, etc.*) ; *Inspector-Genl. of Police*, S. B. S. Bawa.

High Court, Punjab & Haryana, Chandigarh.

Chief Justice, S. S. Sandhawalia ; *Judges*, P. C. Jain, S. C. Mital, D. S. Tewatia, B. S. Dhillon, D. B. Lall, Gurnam Singh, Mela Ram Sharma, R. N. Mittal, Sukhdev Singh Sidhhu, Ajit Singh Bains, Kulwant Singh Tiwana, Harbans Lal, Surinder Singh, S. P. Goyal, C. S. Tiwana, J. M. Tandon, S. S. Dewan ; *Registrar*, S. S. Sodhi.

RAJASTHAN, Jaipur.

Governor : Raghukul Tilak.

Lok Ayukta, I. D. Dua.

Ministers

Chief Minister in charge of Personnel, Admve. R Gen. Adm., Political, Cabinet Sectt., etc., Bhairon Singh Shekhawat ; *Finance, Excise, etc.*, Adityendra ; *L & Transport, Rajasthan Canal, etc.*, Kedar Nath Sharma ; *Home, Rehab., etc.*, Sampat Ram ; *Health & Plng.*, Tril Chand Jain ; *Irri. & Power*, Lalit Kishore Chaturvedi ; *Co-optve., Mines, etc.*, Kailash Meghwal ; *Edn., H etc.*, Bhanwari Lal Sharma ; *Inds., Law, etc.*, B Narain Chaudhary ; *Agri.*, Digvijai Singh ; *Revenue, Forests*, Purushottam Mantri ; *Food & Civil Supp Famine Relief*, Jai Narain Punia. *New Ministers :* Man Chand Surana, Kalyan Singh Kalvi, Dr . Hari Singh, L Mal Singhvi.

Ministers of State

Social Welfare, Power, Edn. & Tourism, Smt. Vid Pathak ; *Pub. Relations, Waqf, Gen. Adm., Labour & P.H.E.D.*, Mahboob Ali ; *Tribal Area Devpt., Inds., etc.* Nand Lal. *New Ministers of State :* Hari Singh Yada B. L. Kalabadal.

Secretariat

Chief Secretary, G. K. Bhanot ; *Devpt. Commr. & S* M. M. K. Wali ; *Commrs. & Secs.*, Sher Singh (*F & Civil Supplies, Famine Relief, Power & PWD*) ; K. S Rastogi (*Edn.*) ; Brijraj Raj Bahadur (*Removal of Pu Grievances*) ; L. N. Gupta (*Home*) ; Mangal B (*Finance*) ; Bhim Singh (*Irri. & Rajasthan Canal Project* V. I. Rajagopal (*Medical, Pub. Health & Family Welfare*) K. S. Ujjawal (*Land Reforms & Revenue*) ; S. P. Vishno (*Agri.*) ; Onkar Singh (*State Enterprises*) ; *Secs.*, D. R Mehta (*Inds. & Mines*) ; Vijay Singh (*L.O.G. & T Plng.*) ; Brijendra Singh (*Labour*) ; *Spl. Secs.*, Arun Kum (*Personnel & A.R.*) ; L. N. Laddha (*Finance*) ; Inderje (*Plng.*) ; Maya Ram (*Agri.*) ; M. B. Sharma (*La*

Principal Officials

Chmn., Rajasthan Canal Bd., Bhim Singh; *Inspector-Genl. of Police*, Ganesh Singh ; *Inspector-Genl. of P* R Kant Saxena ; *Chief Conservator of Forests* K. K. G *Commr., Tribal Area Devpt.*, Vijay Verma ; *Excise C* I. C. Shrivastava ; *Labour Commr.*, Brijendra S *Registrar of Co-op. Socs.*, B. L. Sharma ; *Transport C* K. V. Shankaran ; *Dirs.*, S. L. Joshi (*Comm. Devpt. & P chayats*) ; Dr. R. P. Purohit (*Medical & Health S* S. N. Mathur (*Animal Husb.*) ; M. M. Kothari (*Coll. Edn.* M. D. Korani (*Primary & Secondary Edn.*) ; S. N. Goy (*Tech. Edn.*) ; Umed Singh Rathore (*Inds.*) ; S. D. M (*Agri.*) ; R. N. Sharma (*Economics & Stats.*) ; K. L Kochar (*Pub. Relations*) ; Dharam Vir (*Social Welfare* R. N. Bhandari (*Emp.*) ; Y. N. Dave (*Mines & G* Rajendra Pal Singh (*Tourism*).

High Court, Jodhpur 342001.

Chief Justice Vacant ; *Judges* Mohan Lal Joshi, Kaly Dutt Sharma, Dwarka Prasad Gupta, Mohan Lal Shir Mangi Lal Jain, Purushottam Das Kudal, Guman M Lodha, Shrikrishna Mal Lodha ; *Addl. Judges*, N Mohan Kasliwal, Milap Chand Jain, Suresh C Agrawal ; Miss Kanta Kumari Bhatnagar ; *R* R. N. Kaul ; *Registrar* (*Vigilance*), M. R. Mitruka ; *Ad cate-General*, R. N. Rastogi.

SIKKIM, Gangtok.

Governor : B. B. Lal

Ministers

Chief Minister in charge of Home (Police & Gen. A Finance, Law, etc., Kazi Lhendup Dorji Khangsarp *Edn., Press, Inf. & Pub. Relations, etc.*, B. P. Dahal *Labour, Mines & Geology, etc.*, K. B. Limboo ; *M*

Health, Social Welfare, Food & Civil Supplies, etc., B. P. Kharel; *Power, Small, Medium & Heavy Inds., etc.*, Rinzing Tongden Lepcha; *Rural Works, Excise, etc.*, Dorjee Tsering Bhutia; *Agri., Animal Husb., Co-opn., etc.*, Nyan Tsering Lepcha; *Forests, Tourism, Land Reforms, etc.*, R. C. Paudyal.

Secretariat

Chief Secretary & Secretary, Home, T. S. Gyaltsen; *Secs.*, C. D. Rai (*Establishment*); M. P. Pradhan (*Finance*); P. T. Wangdi (*Land Revenue & Land Reforms*); S. K. Sinha (*Food & Civil Supplies*): T. P. Sharma (*Panchayat, Rural Works, etc.*): T. Chhophel (*Press, Inf. & Pub. Relations & Mg. Dir., State Trading Corpn.*); J. Dorji (*Power, Labour, Culture and Govt. Cottage Inds. Inst.*); P. K. Pradhan (*Secy. to the Governor*); B. R. Pradhan (*Law & Leg.*); K. Sherab (*Heavy Ind., Mines & Geology and Scheduled Castes Welfare*); R. B. Mukhia (*Excise & Local Self Govt.*); J. K. Thapa (*Co.-opn. & Dir. of Census*); R. K. Gupta (*Leg. Assembly*).

Principal Officials

Chief Conservator of Forests, K. C. Pradhan; *Divl. Commr.*, D. K. Manavalan; *I.G.P.*, M. N. Gadgil; *Dirs.*, Dr. G. P. Srivastava (*Health Services*); Dr. A. T. Sanyal (*Agri.*); Dr. R. C. Khera (*Animal Husb.*); T. Chhopel (*Mg. Dir., Sikkim State Trdg. Corpn.*); *Devpt. Commr.*, R. Narayanan.

High Court, Gangtok 737101.

Chief Justice, Man Mohan Singh Gujral; *Judge*, Anandmoy Bhattacharjee; *Advocate-Genl.*, S. R. Sarkar.

TAMIL NADU, Madras.

Governor: Prabhudas Patwari.

Ministers

Chief Minister in charge of Gen. Adm., Public, Prohibition, Large Scale Inds., Mines & Minerals, etc., M. G. Ramachandran; *Finance, Plng., etc.*, K. Manoharan; *Law, Prisons, etc.*, K. Narayanaswamy Mudaliar; *Food, Fisheries, etc.*, G. R. Edmund; *Electricity, Iron & Steel Control*, S. Ramachandran; *Inf., Pub. & Tourism*, R. M. Veerappan; *Edn.*, C. Aranganayagam; *Harijan Welfare*, P. Soundarapandian; *Mun. Admn., etc.*, K. Kalimuthu; *Labour, Housing, etc.*, S. Raghavanandan; *Transport*, C. Ponnaiyan; *Social Welfare*, Selvi P. T. Saraswati; *Agriculture, etc.*, G. Kolandaivelu; *Rural Inds.*, K. Raja Mohammed; *Co-opn., Regn.*, K. A. Krishnaswamy; *Revenue, Comml. Taxes, Excise*, S. D. Somasundaram; *Health*, R. Soundararajan; *Handlooms, Textiles*, etc., Thirumathi S. Jegadeesan.

Parliamentary Secretaries

N. M. Vincent (*Finance*); A. Jagadisan (*Co-optves.*); M. Velliachamy (*Edn.*); Musiri Puthan (*Revenue*); H. Valan (*Inf.*); M. A. Jayavelu (*Law*); P. G. Kittu (*Transport*); R. Arunachalam (*Health*).

Secretariat, Fort St. George, Madras 600009.

Chief Secretary, V. Karthikeyan; *Vigilance Commr.*, C. V. R. Panikar; *Secs.*, K. Diraviam (*Food*); P. Kandaswamy (*Housing*); E. C. P. Prabakar (*Revenue*); C. G. Rangabashyam (*Edn.*); T. N. Seshan (*Agri.*); H. M. Singh (*Home*); J. S. Bhango (*Trnsport*); B. Vijayaraghavan (*Pub. Works*); P. Murari (*Health & Family Welfare*); A. S. Ahluwalia (*Social Welfare*); K. P. Geetha Krishnan (*Inds.*); Selvi M. S. Ramesh (*Co.-opn.*); G. S. Seshadri (*Comml. Taxes & Religious Endowments*); G. Thirumalai (*Forests & Fisheries*); K. Venkatesan (*Finance*); C. Ramachandran (*Labour & Emp.*); T. V. Vasudevan (*Rural Devpt, & Local Admn.*); S. Vadivelu (*Law*); Harbans Singh (*Prohibition & Excise*).

Principal Officials

Directors: C. Chellappan (*Harijan Welfare*); Dr. Chinnadurai (*Animal Husb.*); Dr. H. S. S. Lawrence (*School Edn.*); T. D. Sundarraraj (*Rural Devpt.*); R. Nagarajan (*Fisheries*); K. Mohanarangam (*Collegiate Edn.*); C. Ramachandran (*Ind. & Commerce*); Dr. Gannadesikan (*Medical Edn.*); Dr. P. E. Benjamin (*Health & Family Welfare*); Dr. V. C. Kulandaiswami (*Tech. Edn.*); V. Sankara Subbaiyan (*Handlooms & Textiles*); N. Krishnamurthi (*Inf. & Pub. Relations*); M. Paramasivam (*Backward Classes*); *Registrar of Co-op. Socs.*, H. B. N. Shetty; *Commr. of Labour*, S. Narasimhan; *Commr. of Hindu Religious & Charitable Endowments*, U. Subramanyan; *Inspector-Genl. of Police*, E. L. Stracey; *Inspector-Genl. of Prisons*, A. Murugesan; *Commr. of Police, Madras*, P. Paramaguru; *Chmn., Pub. Service Commn.*, J. A. Ambashankar.

Madras Metropolitan Development Authority, No. 2 Rundalls Rd., Madras 600007.

Madras Metropolitan Water Supply & Sewerage Board, Khaleed Shiraz Estate, 31/2-A, Pantheon Rd., Egmore, Madras 600008.

State Planning Commission, Ezhilagam, Madras 600005.

Tamil Nadu Khadi & Village Industries Board, Kuralagam, Madras 600001.

Tamil Nadu Slum Clearance Board, 36, Mount Rd., Madras 600005.

High Court, Madras 600001.

Chief Justice, T. Ramaprasada Rao; *Judges*, M. M. Ismail, P. R. Gokulakrishnan, G. Ramanujam, V. Ramaswami, N. S. Ramaswami, C. J. R. Paul, S. Natarajan, A. Varadarajan, V. Sethuraman, S. Ratnavel Pandian, S. Mohan, S. Suryamurthy, V. Balabsubrahmanyan; *Addl. Judges*, M. A. Sathar Sayeed, Sathiadev, Nainar Sundaram, Maheswaran; *Registrar*, D. S. Alexander; *Advocate-General*, V. P. Raman; *Sheriff of Madras*, S. H. Syed Yusuf.

Railway Service Commission, Cathedral Rd., Madras 600086. *Chmn.*, M. P. K. Menon; *Member-Secy.*, T. Deenadayalu.

Southern Railway (General Manager's Office, Park Town, Madras 600003).

General Manager, R. M. Sambamoorthi; *Gen. Manager (Const.)*, G. A. Sheriff; *Sr. Dy. Gen. Manager*, S. Ganesan; *Chief Plng. Officer*, V. Kolandaivelu; *Chief Personnel Officer*, A. Sukumaran; *Chief Engr.*, N. Neelakanta Sarma; *Chief Signal & Telecomm. Engr.*, C. M. Joseph; *Chief Optg. Supdt.*, J. S. A. David; *Chief Commercial Supdt.*, B. Natarajan; *Chief Mech. Engr.*, K. G. Belliappa; *Chief Electl. Engr.*, S. Sarath; *F.A. & C.A.Os.*, Godwin Rose, H. Ramamoorthy (*Const.*); *Chief Security Officer*, P. Dorai; *Chief Medical Officer*, Dr. T. J. Cherian; *Chief Claims Officer*, T. V. Srinivasan; *Chief Workshop Engr.*, K. Viswanathan; *Controller of Stores*, A. V. Sugavaneswaran; *Chief Engrs. (Const.)*, V. Anver (*Madras Egmore*); M. V. Chalapathi Rao (*Bangalore Cantt*). *Chief Safety Supdt.*, R. S. Amirtharaj; *Chief Pub. Relations Officer*, K. P. A. Raju.

TRIPURA, Agartala.

Governor: L. P. Singh.

Ministers

Chief Minister in charge of Home, Finance, Law, Political, Admve. Reforms, Plng., etc., etc., Nripen Chakraborty; *Edn., Tribal Welfare, Food & Civil Supplies*, Dasharath Deb; *Revenue, Labour, etc.*, Biren Datta; *Ind., Pub. Relations & Tourism, etc.*, Anil Sarkar; *Comm. Devpt., etc.*, Dinesh Debbarma; *P.W.D., Transport*, Baidyanatha Majumder; *Agri., Co-optve., Animal Husb.*, Bajuban Reang; *Forests*, Md. Araber Rahman; *Jail*, Jogesh Chakraberty; *Relief & Rehab., etc.*, Braja Gopal Roy; *Health & Family Welfare*, Vivekananda Bhowmik.

Secretariat

Chief Secretary, T. S. Murty; *Addl. Chief Secy.*, Amar Singh; *Revenue Commr.*, K. D. Menon; *Tribal Commr.*, K. B. Gurung; *Secs.*, Haridas Mukherjee, J. K. Bhattacharjee, B. B. Deb Roy, S. L. Chatterjee, S. K. Bhattacharjee; *Dirs.*, G. P. Sau (*Pub. Relations & Tourism*); Jagadish Banerjee (*Edn.*); S. Paul Chowdhuri (*Agri.*); N. K. Singh (*Panchayat*); Dr. R. Datta (*Health Services*); R. P. Sengupta (*Inds.*); V. Tulshi Das (*Land Records*); P. P. Mathur (*Tribal Welfare*); B. P. Bagchi (*Animal Husb.*); M. M. Singh (*Food*); *Inspector-Genl. of Police*, S. Datta Chowdhuri; *Dy. Chief Conservator of Forests*, A. K. Ghosh; *Registrar of Co-op. Socs.*, M. M. Singh.

(High Court: Given under Assam).

*UTTAR PRADESH, Lucknow.

Governor: G. D. Tapase.

Ministers

Chief Minister in charge of Gen. Adm., Personnel, Apptt., Vigilance, Plng., etc., Ram Naresh Yadav: *Inds.*, Ram Prakash; *Power*, Ravindra Kishore Sahi; *Irri.*, Balbir Singh; *Agri.*, Rajendra Singh; *Finance*, Madhukar Dighe; *Village Devpt.*, Jamuna Prasad Bose; *Food & Civil Supplies*, Harish Chandra Srivastava; *Local Self-Govt., etc.*, Ganesh Dutt Bajpai; *Harijan & Social Welfare, etc.*, Smt. Chandrawati; *Co-opn.*, Mulaiyam Singh Yadav; *Home, Civil Defence, etc.*, Ram Singh; *Edn.*, Kali Charan; *Insttnl. Finance*, Keshri Nath Tripathi; *Revenue*, Sharda Bhakat Singh; *Transport*, Abul Ali Ansari; *Medical & Health*, Kalyan Singh; *Pub. Works*, Md. Masud Khan; *Justice & Jails*, Om Prakash Singh; *Forests*, Shri Chandra; *Hill Devpt.*, Shoban Singh Jina; *Labour & Excise*, Rama Shanker Kaushik; *Cane Devpt., etc.*, Shiv Mangal Singh.

Ministers of State

Plng., Laxman Singh; *Inf.*, Avdesh Prasad; *Agri.*, Dhirendra Sahai; *Village Inds.*, Subedar Prasad; *Sales Tax*, Smt. Shakuntala Nayar; *Small Inds.*, Revti Raman Singh; *Handloom*, Abdul Rauf Lari; *Irri.*, Sharda Prasad Rawat; *Tech. Edn.*, Kunwar Satya Vir; *Local Self-Govt.*, Satya Prakash Agarwal; *Youth Welfare & Sports*, Chandra Shekhar Singh; *Hill Devpt.*, Satya Dev Tripathi; *Other Ministers of State:* Kazi Mohd. Mohiuddin, Laxami Sahai Saxena, Raj Bali Tiwari.

Deputy Ministers

Bhagvati Singh, Babu Lal Verma, Shiva Das Tiwari, Smt. Malti Sharma, Taj Singh, Chhote Lal Yadav, Maqbool H. Khan, Mukhtar Anis.

Secretariat

Chief Secretary, D. K. Bhattacharya; *Commrs. & Secs.*, S. S. Bisen (*Vigilance, Home, etc.*); N. B. Lal (*Personnel Adm., etc.*); S. K. Bhatnagar (*Agri. & Village Devpt.*); N. Raj Gopal (*Area Devpt.*); P. C. Saxena (*Rural Devpt. & Panchayati Raj*); N. P. Tripathi (*Forests*); G. P. Mittal (*Edn.*); D. M. Sinha (*Social Welfare*); T. P. Tiwari (*Finance*); M. Subramaniam (*Insttnl. Finance*); G. C. Chaturvedi (*Food & Civil Supplies*); P. P. Khanna (*Inds.*); R. Vasudevan (*Sugar Ind., Cane Devpt.*); R. C. Deo Sharma (*Judl., Leg.*); B. J. Khodaiji (*Housing & Local Self-Govt.*); D. D. Joshi (*Medical & Health*); Anand Sarup (*Plng.*); Atma Ram Gupta (*Power*); Rajendra Kumar (*Pub. Works*); A. P. Dixit (*Transport*); K. D. Agarwal (*Revenue*); J. C. Pant (*Labour & Excise*).

Principal Officials

Dirs., R. S. Mathur (*Adm. Trg. Instt., Nainital*); H Har Prasad (*Agri.*); Dr. M. B. Bhardwaj (*Animal H* Dr. Satyapal Gupta (*Ayurvedic & Unani*); D. P. G (*Economics & Stats.*); Dr. S. N. Mehrotra (*Edn.,* *dary & Basic*); Dr. A. P. Mehrotra (*Higher Edn.*); S. K Mital (*Tech. Edn.*); Dr. Y. R. Tripathi (*Fisheries*); S. Shukla (*Handloom & Textile Inds.*); S. P. Arya (*Harij Welfare*); Surendra Singh (*Inds.*); B. K. Chaturvedi (*Inf.* Dr. K. N. Tandon (*Medical & Pub. Health*); M. M. Gup (*Panchayati Raj*); R. P. Singh (*Trg. & Emp.*); B. Pandey (*Vigilance*); Chandra Pal (*Tourism*); Saroop (*State Plng. Instt.*); *Registrar of Co-op.* Roshan Lal; *Chief Conservator of Forests*, H. C. De; *H ing Commr.*, A. P. Singh; *Inspector-General of Pri* B. K. Misra; *Labour Commr.*, H. S. Sharma; *I Genl. of Police*, Lal Singh Verma; *Sales Tax Commr.*, Venkataramani; *Transport Commr.*, Vishwa Nath A

North-Eastern Railway, Gorakhpur 273001.

General Manager, Krishan Chandra; *Sr. Dy. Ge Manager*, U. A. Kamath; *Chief Comml. Supdt.*, O. D. Agnihotri; *Chief Claims Officer*, Tej Ram; *Chief Op Supdt.*, T. V. Srinivasan; *Chief Engr.*, K. M. Mall; *C Electl. Engr.*, T. D. Joshi; *Chief Workshop Engr.*, J. P Gupta; *Chief Engr. (Const.)*, S. Anantanarayan; *Ch Medical Officer*, Dr. P. C. Bhalla; *Chief Personnel O* T. Y. Madhav; *Chief Security Officer*, Shyam Lal: *F.A. & C.A.O.*, R. Kannan; *Chief Mechanical Engr.*, M. S. D Jetley; *Chief Signal & Tele. Comm. Engr.*, A. Lakshm Narayanan; *Controller of Stores*, P. K. Dutta; *Chi Bridge Engr.*, P. K. Srinivan; *Chief Pub. Relations Offi* P. N. Tewari.

Railway Service Commission, 19, Sardar Patel Mar Allahabad 211001.

High Court, Allahabad 211001.

Chief Justice, Satish Chandra; *Judges*, Y. Nanda R. B. Misra, Hari Swarup, M. N. Shukla, H. N. Seth, M. H. Hussain, S. B. Malik, J. M. L. Sinha, K. N. Singh, C. S. P. Singh, Gopi Nath, M. B. Farooqi, T. S. Misra, N. D. Oj K. N. Seth, P. N. Bakshi, H. N. Capoor, Prem Praka M. P. Mehrotra, D. N. Jha, Amitav Banerji, B. N. Ka K. C. Agarwal, G. D. Srivastava, J. P. Chaturvedi, M. P. Saxena, V. N. Verma, M. M. M. Hussain, K. S. Verma, B N. Sapru, R. M. Sahai, P. N. Harkauli, D. N. Agarwa P. S. Gupta, R. R. Rastogi, U. C. Shrivastava, K. P. Singh *Addl. Judges*, P. N. Goel, S. D. Agarwala, M. M. G Mahabir Singh, S. J. Hyder, V. N. Misra, K. N. G V. K. Mehrotra, S. C. Mathur, R. C. Srivastava; *A Genl.*, Rishi Ram; *Registrar*, A. S. Srivastava.

WEST BENGAL, Calcutta.

Governor: Tribhuvan Narayan Singh.

Ministers

Chief Minister in charge of Home (Police & Gen.), Sp Power, etc., Jyoti Basu; *Land & Land Revenue*, Krishna Choudhury; *Home (Transport)*, Md. A *Food & Supplies*, Sudhin Kumar; *Finance, Devpt., Plng. & Excise*, Dr. Ashoke Mitra; *Agri. & Comm. Devpt.*, Kamal Guha; *Commerce & Inds.*, Dr. Kanai Bha jee; *Labour*, Krishna Pada Ghosh; *Primary & S Edn.*, Partha Dey; *Judl. & Legis. Deptt.*, Hasim A Halim; *Fisheries & Co-optves.*, Bhakti Bhusan M *P.W.D. & Housing*, Jatin Chakraborty; *Animal Husb. & Dairy Devpt.*, Amritendu Mukherjee; *Health & Family Welfare*, Mani Bhattacharya; *Home (Jails) & [illegible]* Debabrata Bandyopadhyay; *Irri., Waterways & Devpt. of Sunderban Area*, Pravash Roy; *Forests & Tourism*, Parimal Mitra; *Edn.*, Prof. Sambhu Ghosh;

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* See Late Particulars also.

Services, Prasanta Sur ; *Refugees, Relief & Rehab.*, Radhika Banerjee ; *Cottage & Small Scale Inds.*, Chittabrata Mazumdar ; *Inf. & Pub. Relations*, Budda Deb Bhattacharjee ; *Parl. Affairs Branch of Home Deptt.*, Bhabani Mukharjee.

Ministers of State

Welfare, Smt. Nirupama Chatterjee ; *Scheduled Castes & Tribes*, Sambhunath Mandi ; *Transport*, Sibendra Narayan Choudhury ; *Primary & Secondary Edn., etc.*, Md. Abdul Bari ; *Youth Services, etc.*, Kanti Chandra Biswas ; *Civil Branch of Home Deptt.*, Ram Chatterjee.

Secretariat, Writers Bldg., Calcutta 700001.

Chief Secretary, A. K. Sen ; *Secs.*, Miss R. Mazumder (*Comm. & Inds.*) ; R. N. Sengupta (*Home*) ; P. C. Mukherjee (*Edn.*) ; S. Datta (*Pub. Undertakings*) ; T. Ghosh (*Closed & Sick Inds.*) ; V. Misra (*P.W.D. & Housing*) ; M. Bhattacharyya (*Tourism*) ; B. R. Chakraborty (*Health & Family Welfare*) ; M. Bhattacharjee (*Animal Husb.*) ; B. K. Banerjee (*Irri. & Waterways*) ; P. V. Shenoi (*Co-opn.*) ; S. C. Sarkar (*Fisheries*) ; N. K. Sengupta (*Inf. & Pub. Relations & Youth Services*) ; K. K. Moitra (*Legis.*) ; G. S. Banerjee (*Scheduled Castes & Tribes*) ; S. P. De (*Cottage & Small Scale Inds.*) ; A. K. Mukherjee (*Excise*) ; *Commrs.*, M. G. Kutty (*Finance*) ; B. C. Mukherjee (*Food & Supplies*) ; S. Ghosh (*Agri.*) ; M. N. Chaudhury (*Transport*), S. M. Murshed (*Power*).

Principal Officials

Inspector-Genl. of Police, Sunil Chaudhury ; *Commr. of Police, Calcutta*, Satya Bose ; *Inspector-Genl. of Prisons*, Brig. N. Ghosh ; *Labour Commr.*, Quader Nawaz ; *Registrar of Co-op. Socs.*, D. K. Ghosh ; *Chief Conservator of Forests*, S. S. Mandal ; *Dir. of Agri.*, K. D. Sengupta ; *Dir. of Inds.*, D. N. Mukherjee ; *Dir. of Public Instruction*, Dr. N. R. Kar ; *Dir. of Inf. & Pub. Relations*, S. K. Sengupta ; *Dir. of Fisheries*, S. N. Roy ; *Milk Commr.*, M. R. Konar ; *Dir. of Health Services*, Dr. M. K. Chhetri ; *Dir. of Animal Husbandry*, H. Guha ; *Dir. of Tourism*, A. Das Gupta.

Calcutta Metropolitan Devpt. Authority, 3A, Auckland Place, Calcutta 700017.

West Bengal Board of Secondary Education, 77/2, Park St., Calcutta 700016.

West Bengal Khadi & Village Industries Board, 12, BBD Baug, Calcutta 700001.

Eastern Railway, 17, Netaji Subhas Rd., Calcutta 700001.

General Manager, S. N. Sachdev ; *Sr. Dy. Gen. Manager*, Y. R. Puri ; *F.A. & C.A.O.*, M. Ramji ; *Chief Optg. Supdt.*, M. L. Gupta ; *Chief Comml. Supdt.*, K. K. Das ; *Chief Engr.*, T. N. Joshi ; *Chief Engr.* (*Const.*), T. N. Ramachandran ; *Chief Signal & Telecomm. Engr.*, D. N. Basak ; *Chief Personnel Officer*, D. J. De ; *Chief Security Officer*, B. B. Sanyal ; *Chief Mech. Engr.*, S. K. Mitra ; *Chief Electl. Engr.*, P. Varadachari ; *Chief Medical Officer*, Dr. J. M. Ghosh ; *Chief Plng. Officer*, A. K. Chatterjee ; *Chief Pub. Relations Officer*, S. I. Basu ; *Chief Claims Officer*, Inder Sahai ; *Chief Safety Supdt.*, P. P. Ayyar.

South Eastern Railway, 11, Garden Reach Rd., Calcutta 700043.

General Manager, J. N. Kohli ; *Chief Plng. Officer*, V. S. Murti ; *Sr. Dy. Gen. Manager*, E. C. King ; *FA & CAOs.*, A. K. Raychaudhuri (*O/L*) ; S. K. Mitra (*Const.*) ; *Chief Comml. Supdt.*, P. N. S. Bedi ; *Chief Elect. Engr.*, K. C. Priyadarshee ; *Chief Mech. Engr.*, M. G. Verma ; *Chief Optg. Supdt.*, C. K. Swaminathan ; *Chief Personnel Officer*, N. Dutt ; *Chief Sig. & Tel. Comm. Engrs.*, K. J. M. Jacob; S. Panchapagesan (*Const.*) ; *Chief Engrs.* ; P. V. Narayanaswamy (*P & D*) ; K. Balachandran (*Const. BSP*) ; T. M. Varughese (*O/L*) ; *Pub. Relations Officer*, R. K. Mishra ; *Chief Security Officer*, S. N. Mishra ; *Controller of Stores*, N. M. Sagade ; *Chief Medical Officer*, Dr. A. L. Goswamy ; *Chief Safety Supdt.*, M. K. Varma ; *Chief Claims Officer*, A. K. Bhaduri ; *Chief Workshop Engr.*, R. K. Thyagarajan.

Railway Service Commission, Mackinnon Mackenzie Bldg., 16, Strand Rd., Calcutta 700001.

Chmn., P. K. Patnaik ; *Member-Secy.*, A. R. Ghosh ; *Asstt. Secy.*, P. B. Nair.

Metropolitan Transport Project (Railways), 14, Strand Rd., Calcutta 700001.

High Court, Calcutta 700001.

Chief Justice, Sankar Prasad Mitra ; *Judges*, A. N. Sen, S. C. Ghose, R. M. Datta, S. C. Deb, S. Mukharji, T. K. Basu, S. K. Datta, P. K. Banerjee, A. K. Sen, Chittatosh Mookerjee, Amiya Kumar Mookerji, M. M. Dutt, Purna Chandra Borooah, S. K. Roy Chowdhury, R. N. Bhattacharya, S. K. Hazra, A. K. Janah, N. C. Mukherji, A. N. Banerjee, Sudhamay Basu, A. K. Sarkar, D. K. Sen, R. N. Pyne, Bankim Chandra Ray, Manasnath Roy, Bimal Chandra Basak, R. K. Sharma, Ganendra Narayan Roy, Chandan Kumar Banerjee, Monoj Kumar Mukherjee, Dhiresh Chandra Chakravorti, Mrs. Padma Khastagir ; *Addl. Judges*, Mrs. Monjula Bose, Bimalendra Nath Maitra, B. C. Chakraborti, Sunil Chandra Majumdar, Mrs. Jyotimoyee Nag ; Mrs. Prativa Bonnerjea and Sudhindra Mohan Guha ; *Advocate-General*, S. K. Acharya ; *Sheriff*, Dr. Mihir Kumar Mitra ; *Registrar* (*Appellate Side*), A. M. Pal ; *Registrar* (*Original Side*), Sovendra Kumar Mitra.

INDIAN DIPLOMATIC REPRESENTATIVES ABROAD

(Corrected upto Nov. 15, 1978. Further changes, if any, appear in "Late Particulars" at the end of the book.)

EMBASSIES & CONSULAR OFFICES

AFGHANISTAN (DEMOCRATIC REPUBLIC OF) : *Ambassador :* Vacant. *Address :* Embassy of India, Malali Wat, Shahr-e-Nau, Kabul.

Consul : M. K. Malik. *Address :* Consulate of India, 146, Nahiya Sahr-e-Nau, Jalalabad.

Consul : P. K. Thakkar. *Address :* Consulate of India, Kandhar.

ALGERIA : *Ambassador* (also Amb. to Mauritania) : K. K. S. Rana. *Address :* Embassy of India, 119 ter, Rue Didouche Mourad, Algiers.

ARGENTINA : *Ambassador* (also Amb. to Paraguay & Uruguay) : Vacant. *Address :* Embassy of India, Paraguay 580 (3rd Flr.), Buenos Aires.

AUSTRIA : *Ambassador* (also Permanent Rep. of India to the Intnl. Organisations in Vienna) ; K. R. P. Singh. *Address :* Embassy of India, 1, Opernring StiegeR/VIII 1, A1010, Vienna 1.

BAHRAIN : *Ambassador :* D. C. Manners. *Address :* Embassy of India, 2299/7, Al Adlia Area, Jufair, Bahrain.

BELGIUM : *Ambassador* (also Amb. to Grand Duchy of Luxembourg) : P. K. Dave.* *Address :* Embassy of India, Avenue Moliere, 121, 1180, Brussels.

Consul-General : Robert Desprechins. *Address :* Consulate-General of India, Lt. Willemootlaan 5, 9910 Mariakerke, Ghent.

BHUTAN : *Ambassador :* J. R. Hiremath. *Address :* Embassy of India, Lungtenzempa, Thimphu.

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* Concurrently accredited to the European Economic Community and the European Coal & Steel Community. Also India's Permanent Representative to GATT.

BOLIVIA : *Ambassador* (also Amb. to Chile) : B. K. Basu. Resident in Santiago. (Embassy of India, La Paz).

BRAZIL : *Ambassador :* H. S. Vahali. *Address :* Embassy of India, QLJ/1, Casa 14, Lago Sul, Brasilia—DF.

BULGARIA : *Ambassador :* S. H. Desai. *Address :* Embassy of India, 31 Blvd. Patriarch Eftimii, Sofia.

BURMA : *Ambassador :* Amiya Nath Bose. *Address :* Embassy of India, Oriental Assurance Bldgs., 545–47, Merchant St., Rangoon.

Consul : C. P. A. Menon. *Address :* Consulate of India, 68th Street, Mandalay.

BURUNDI : *Ambassador* (also Amb. to Rwanda & High Commr. to Uganda) : Madan Jeet Singh. Resident in Kampala. (Embassy of India, Bujumbura).

CAMBODIA : *Ambassador :* Vacant. *Address :* Embassy of India, Phnom Penh.

CAMEROUN : *Ambassador* (also Amb. to Dahomey, Niger and Togo & High Commr. to Nigeria) : Mrs. K. Rukmini Menon. Resident in Lagos. (Embassy of India, Yaounde).

CANARY ISLANDS (Spain) : *Consul :* C. Bulchand. *Address :* Consulate of India, 35, Triana, Las Palmas.

CAPE VERDE ISLANDS : *Ambassador* (also Amb. to Guinea Bissau, Mali, Ivory Coast & Senegal and High Commr. to Gambia) : Gajendra Singh. Resident in Dakar.

CENTRAL AFRICAN EMPIRE : *Ambassador* (also Amb. to Zaire Republic, Equatorial Guinea, Brazzaville Congo & Gabon) : M. K. Khisha. Resident in Kinshasa.

CHAD : *Ambassador* (also Amb. to Sudan) : S. M. S. Chadha. Resident in Khartoum.

CHILE : *Ambassador* (also Amb. to Bolivia) : B. K. Basu. *Address :* Embassy of India, 871, Triana, Santiago.

CHINA (PEOPLE'S REPUBLIC OF) : *Ambassador :* R. D. Sathe. *Address :* Embassy of India, 1, Jih Tan Tung Lu, Peking.

COLOMBIA : *Ambassador :* K. C. Lalvunga. *Address :* Embassy of India, Carrera 7, No. 87-20, Apartment No. 104, Bogota.

COMORES : *Ambassador* (also Amb. to Malagasy Republic) : A. W. B. Vaz. Resident in Antananrivo.

CONGO (BRAZZAVILLE) : *Ambassador* (also Amb. to Central African Empire, Equatorial Guinea, Zaire Republic & Gabon) : M. K. Khisha. Resident in Kinshasa.

COSTA RICA : *Ambassador* (also Amb. to Nicaragua & Panama): Miss N. N. Haralu. Resident in Panama City, (Embassy of India, San Jose).

CUBA : *Ambassador :* Vacant. *Address :* Embassy of India, Calle 21 NRO. 202,esquina a K, Vedado, Havana.

CZECHOSLOVAKIA : *Ambassador :* Surendra Singh of Alirajpur. *Address :* Embassy of India, Valdstejnska 6, Malastrana, Prague 1.

DAHOMEY : *Ambassador* (also Amb. to Cameroun, Niger and Togo & High Commr. to Nigeria) : Mrs. K. Rukmini Menon. Resident in Lagos. (Embassy of India, Cotonou).

DENMARK : *Ambassador :* Prem Shunker. *Address :* Embassy of India, Vengehusvej 15, Copenhagen.

Consul-General : Victor B. Strand. *Address :* Consulate-General of India, Kronprinsessegade 36, DK 1306, Copenhagen K.

DJIBOUTI : *Consul :* S. J. Kothari. *Address :* Consulate of India, P. Box 171, Djibouti.

DUBAI : *Consul-General :* M. Venkataraman. *Address* Consulate-General of India, Post Box 737, Dubai.

ECUADOR : *Ambassador* (also Amb. to Peru) Mrs. Manorama Bhalla. Resident in Lima.

EGYPT (ARAB REPUBLIC OF) : *Ambassador* Ashok Chib. *Address :* Embassy of India, 5, El [illegible] Aziz Abaza St., Zamalek, P.O. Box 718, Cairo.

Consul-General : Vacant. *Address :* Consulate-General of India, 22, Saleh Salem St., Port Said.

EQUATORIAL GUINEA : *Ambassador :* (also Amb. to Zaire Republic, Brazzaville-Congo, Central African Empire and Gabon) : M. K. Khisha, Resident in Kinshasa.

ETHIOPIA : *Ambassador :* Vinay Verma. *Address* Embassy of India, P.O. 528, Addis Ababa.

FINLAND : *Ambassador :* S. S. Nath. *Address :* Embassy of India, Annankatu, 15B 14, 5th Flr., 00120, Helsinki 12.

FRANCE : *Ambassador :* M. M. Rasgotra. *Address :* Embassy of India, 15, Rue Alfred Dehodencq, Paris, 16.

GABON : *Ambassador* (also Amb. to Central African Empire, Equatorial Guinea, Zaire Republic & Brazzaville-Congo) : M. K. Khisha. Resident in Kinshasa.

GERMAN DEMOCRATIC REPUBLIC : *Ambassador :* R. Axel Khan. *Address :* Embassy of India, Clara-Zetkin, Strasse 89/06, 108-Berlin (GDR).

GERMANY (FEDERAL REPUBLIC OF) : *Ambassador :* M. A. Rahman. *Address :* Embassy of India, 262, Adenauerallee, 53, Bonn.

Consul-General (Consular jurisdiction includes the States of Hessen, Rheinlandpfalz & Saarland) : Ranjit Gupta. *Address :* Wilhelm-Leuschner Strasse, 93 (2nd floor), 6, Frankfurt Main.

Consul-General (Consular jurisdiction includes the States of Hamburg, Bremen, Schleswig Holstein and Lower-Saxony) : J. Banerjee. *Address :* 14VI, 2 Burchardstrasse, Sprinkenhof, Hamburg 1.

Consul-General : Robert Gedon. *Address :* Consulate-General of India, Leopold str. 87, Munich 2.

Consul-General : Dr. R. Kissel. *Address :* Consulate-General of India, 7, Struttgart-Degerlok Waldstr. 5. 7, Stuttgart.

Consul-General : R. K. Mukherjee. *Address :* Consulate-General of India, Joachimstaler strasse 28 (1st Floor), West Berlin-15.

GREECE : *Ambassador* (also Amb. to Yugoslavia) : N. Krishnan. Resident in Belgrade. (Embassy of India, Athens).

Consul-General : L. E. Vafiadis. *Address :* Consulate-General of India, 1, Valaoritou St., Athens 134.

GUATEMALA : *Ambassador* (also Amb. to Mexico) : A. N. Mehta. Resident in Mexico City. (Embassy of India, Guatemala).

GUINEA : *Ambassador :* Usha Nath. *Address :* Embassy of India, Kebe Bldg., 3rd Flr., B.P. 186/Bis. Conakry

GUINEA BISSAU : *Ambassador* (also Amb. to Cape Verde Islands, Senegal, Ivory Coast, Mali and High Commr. to Gambia) : Gajendra Singh. Resident in Dakar.

HOLY SEE : *Ambassador* (also Amb. to Switzerland) : Gurbachan Singh. Resident in Berne.

HUNGARY : *Ambassador :* A. K. [illegible] *Address :* Embassy of India, [illegible] 14, Budapest [illegible]

ICELAND : *Ambassador* (also Amb. to Norway) : C. [illegible] Swell. Resident in Oslo. (Embassy of India, [illegible]

INDONESIA : *Ambassador :* B. C. Mishra. *Address :* Embassy of India, 44 Kebon Sirih, Jakarta.

Consul-General : S. S. Bhatnagar. *Address :* Consulate-General of India, 19, Djalan, Uskup Agung A. Sagiopranoto, Medan.

IRAN : *Ambassador :* Vacant. *Address :* Embassy of India, 166, Avenue Saba Shomali, Off Takhte Jamshid, P. Box No. 2473, Tehran.

Consul : P. S. Sathe. *Address :* Consulate of India, 160, Ferdousi Ave., Khorramshahr.

Consul : Gurdeep Singh. *Address :* Consulate of India, Avenue Mehran-130, Zahidan.

IRAQ : *Ambassador:* D. S. Kamtekar. *Address :* Embassy of India, Taha St., Najeeb Pasha, Adhamiya, Baghdad.

Consul : S. S. Mukherjee. *Address :* Consulate of India, Palestine Rd., Basrah.

IRELAND : *Ambassador :* N. N. Jha. *Address :* Embassy of India, 3, Leeson Park, Dublin 6.

ITALY : *Ambassador* (also High Commr. to Malta) : A. K. Damodaran. *Address :* Embassy of India, Via Venti Settembre 5, Rome.

Consul : Jack Clerici. *Address :* Consulate of India, via Martin Piaggio-15, Genoa.

Consul-General : Dr. Nino Trapani. *Address :* Consulate-General of India, Via Goito 11-20151, Milan.

IVORY COAST : *Ambassador* (also Amb. to Senegal, Cape Verde Islands, Mali, Guinea Bissau & High Commr. to Gambia) : Gajendra Singh. Resident in Dakar. (Embassy of India, Abidjan).

JAPAN : *Ambassador :* Avtar Singh. *Address :* Embassy of India, 2-Chome, 2-11, Kudan Minami Chiyodaku, Tokyo.

Consul-General : M. L. Trivedi. *Address :* Consulate, General of India, Shanti Bldg., 30, Nakayamate-dori-1-Chome, Ikuta-JKu, Kobe.

JORDAN : *Ambassador :* Abdul Ghani Goni. *Address :* Embassy of India, 1st Circle, Jabel, Ammam.

KOREA (DEMOCRATIC PEOPLE'S REPUBLIC OF) : *Ambassador :* J. T. Kallukaran. *Address :* Embassy of India, Block 66, Munsu-dong District, Daedong Yong, Pyongyang.

KOREA (REPUBLIC OF) : *Ambassador :* V. V. Paranjpe. *Address :* Embassy of India, San 2-1, Bokwang-Dong, Yongsan-ku (Behid Bowlinn Centre), Seoul.

KUWAIT : *Ambassador :* G. Raj. *Address :* Embassy of India, 34, Share Istiqlal, P. Box 1450 (Safat), Kuwait.

LAO PEOPLE'S DEMOCRATIC REPUBLIC : *Ambassador :* E. A. Srinivasan. *Address :* Embassy of India, P.O. Box No. 225, Rue Pangkham, Vientiane.

LEBANON : *Ambassador* (also High Commr. to Cyprus): Dr. S. Sinha. *Address :* Embassy of India, Sahmarani Bldg., 31, Iantari St., Beirut.

LIBERIA : *Ambassador* (also Amb. to Upper Volta and High Commr. to Ghana & Sierra Leone) : P. A. Nazareth. Resident in Accra. (Embassy of India, Monrovia).

LIBYA : *Ambassador :* Narendra Singh. *Address :* Embassy of India, 16/18, Sh. Armondi Garden City, P.O. Box 3150, Tripoli.

LUXEMBOURG : *Ambassador* (also Amb. to Belgium) : P. K. Dave. Resident in Brussels.

MALAGASY REPUBLIC : *Ambassador* (also Amb. to Comores) : A. W. B. Vaz. *Address :* Embassy of India, 4, Lalana Rajaonson Emile, Antananarivo.

MALDIVES REPUBLIC : *Ambassador* (also High Commr. to Sri Lanka) : Thomas Abraham. Resident in Colombo. (Embassy of India, Male).

MALI : *Ambassador* (also Amb. to Senegal, Cape Verde Islands, Guinea Bissau, Ivory Coast and High Commr. to Gambia) : Gajendra Singh. Resident in Dakar. (Embassy of India, Bamako).

MAURITANIA : *Ambassador* (also Amb. to Algeria) : K. K. S. Rana. Resident in Algiers. (Embassy of India, Nouackchott).

MEXICO : *Ambassador* (also Amb. to Guatemala) : A. N. Mehta. *Address :* Embassy of India, Masset 325 Colonia Anzures, Mexico 5, D.F.

MONGOLIAN PEOPLE'S REPUBLIC : *Ambassador :* V. K. M. Menon. *Address :* Embassy of India, 26 Peace St., Ulan Bator.

MOROCCO : *Ambassador :* U. C. Soni. *Address :* 10, Avenue de Champagne, (Agdal), Rabat.

MOZAMBIQUE : *Ambassador* (also High Commr. to Swaziland) : A. R. Kakodkar. *Address :* Embassy of India, Avonida Kenneth Kaunda Fatima, Maputo.

NEPAL : *Ambassador :* N. B. Menon. *Address :* Embassy of India, G.P.O. Box 292, Kathmandu.

NETHERLANDS : *Ambassador :* Vacant. *Address :* Embassy of India, Buitenrustweg 2, The Hague.

NETHERLANDS ANTILLES : *Consul-General* (also Amb. to Venezuela) : Nirmal Jeet Singh. Resident in Caracas.

NICARAGUA : *Ambassador* (also Amb. to Costa Rica & Panama) : Miss N. N. Haralu. Resident in Panama City.

NIGER : *Ambassador* (also Amb. to Cameroun, Dahomey & Togo and High Commr. to Nigeria) : Mrs. K. Rukmini Menon. Resident in Lagos.

NORWAY : *Ambassador* (also Ambassador to Iceland) : G. G. Swell. *Address :* Embassy of India, Skovvien 12, 2nd Flr., Oslo 2.

OMAN (SULTANATE OF) : *Ambassador :* A. K. Budhiraja. *Address :* Embassy of India, P. Box 77, Muscat.

PAKISTAN : *Ambassador :* K. S. Bajpai. *Address :* Embassy of India, 482-F, Sector G-6/4, Islamabad.

PANAMA : *Ambassador :* (also Amb. to Costa Rica & Nicaragua) : Miss N. N. Haralu. *Address :* Embassy of India, P. Box 8400, Panama.

PARAGUAY : *Ambassador* (also Amb. to Argentina & Uruguay) : Vacant. Resident in Buenos Aires. (Embassy of India, Asuncion).

Consul-General : Antonio Rodolfo Zuccolillo. *Address :* Consulate-General of India, Cerro Coray Paraguari, Asuncion.

PERU : *Ambassador* (Also Amb. to Ecuador) : Mrs. Manorama Bhalla. *Address :* Embassy of India, San Ignacio De Loyola, 150, Miraflores, Lima.

PHILIPPINES : *Ambassador :* L. N. Ray. *Address :* Embassy of India, Room 502 Compos Rueda Bldg., 101 Tindalo St., Makati Rizal (Greater Manila).

POLAND : *Ambassador :* S. K. Bhutani. *Address :* Embassy of India, No. 16, Niegolewskieg, Warsaw 86.

Consul : S. K. Verma. *Address :* Consulate of India, Gydnia.

PORTUGAL : *Ambassador :* P. K. Guha. *Address :* Embassy of India, Rua das Amoreiras 72, D-60, Lisbon-1.

QATAR : *Ambassador :* K. M. Lal. *Address :* Embassy of India, Sheikh Suheim Villa No. 5, El Sheikh Suheim St., P. Box No. 2788, Doha.

ROMANIA : *Ambassador :* Ashok Kumar Roy. *Address :* Embassy of India, 52, Strada Galati, Bucharest.

RWANDA : *Ambassador* (also Amb. to Burundi & High Commr. to Uganda) : Madan Jeet Singh. Resident in Kampala.

SAN MARINO (REPUBLIC OF) : *Consul-General :* Vacant. Resident in Rome (Indian Embassy).

SAUDI ARABIA : *Ambassador :* A. K. Hafizka. *Address :* Embassy of India, Ibrahim Masoud Bldg., Medina Rd., Badhadia, P.O. Box 952, Jeddah.

SENEGAL : *Ambassador :* (also Amb. to Cape Verde Islands, Guinea Bissau, Mali & Ivory Coast & High Commr. to Gambia) : Gajendra Singh. *Address :* Embassy of India, Immeuble Daniel Sorano Avenue de la Republique, 9th Flr., P.B. 398, Dakar.

SOMALIA : *Ambassador :* T. Srinivasan. *Address :* Embassy of India, P. B. No. 955, Mogadishu.

SPAIN : *Ambassador :* G. J. Malik. *Address :* Embassy of India, Velazquez, 93, Madrid 6.

Consul-General : Louis Valeriano Gonzalez Perez. *Address :* Consulate-General of India, Calle Mastro Perez Cabrero 3, Barcelona.

SUDAN : *Ambassador* (also Amb. to Chad) : S. M. S. Chadha. *Address :* Embassy of India, No. 2, El Mek Nimir St., P. Box No. 707, Khartoum.

Consul : S. J. Mithane. *Address :* Consulate of India, Jadavjee Bldg., St. No. 11, Port Sudan.

SURINAM : *Ambassador :* R. N. Gupta, Embassy of India, Paramaribo.

SWEDEN : *Ambassador :* Vacant. *Address :* Embassy of India, Adolf Fredriks Kyrokoata 12 II, Box 1340 S-11183, Stockholm.

SWITZERLAND : *Ambassador* (also Amb. to the Holy See) : Gurbachan Singh. *Address :* Embassy of India, 20, Kalcheggweg. 3000 Berne.

Consul-General : I. V. Chopra. *Address :* Consulate-General of India, Rue Du Valais (6th Flr.), 1202, Geneva.

SYRIAN ARAB REPUBLIC : *Ambassador :* A. P. Venkateswaran. *Address :* Embassy of India, 40/46, Adhan Malki St., Yassin Nouwelati, Damascus.

THAILAND : *Ambassador* (also Permanent Rep. of India to ECAFE) : K. L. Dalal. *Address :* Embassy of India, 139, Pan Rd., Bangkok.

Consul : B. D. Sharma. *Address :* Consulate of India, No. 88/2, Keo Navarth Rd., Chiangmai.

TOGO : *Ambassador* (also Amb. to Cameroun, Nigeria & Dahomey and High Commr. to Nigeria) : Mrs. K. Rukmini Menon, Resident in Lagos. (Embassy of India, Lome).

TUNISIA : *Ambassador :* K. Pratap. *Address :* Embassy of India, 6, Rue Felician Challaye, Belvedere, Tunis.

TURKEY : *Ambassador :* S. Bikram Shah. *Address :* Embassy of India, No. 24, Kibris Sokak, Cankaya, Ankara.

U.S.S.R. : *Ambassador :* I. K. Gujral. *Address :* Embassy of India, No. 6-8, Ulitsa Obukha, Moscow.

Consul-General : D. S. Khosla. *Address :* Consulate-General of India, 31, Kirova St., Odessa.

UNITED ARAB EMIRATES : *Ambassador :* M. H. Ansari. *Address :* Embassy of India, Said Muharbi Bldg., P. Box 4090, Abu Dhabi.

UNITED STATES OF AMERICA (also High Commr. to the Commonwealth of Bahamas) : *Ambassador :* N. A. Palkhivala. *Address :* Embassy of India, 2107 Massachusetts Avenue, N. W. Washington D.C. 20008.

Consul-General : P. N. Neville. *Address :* Consulate-General of India, 201, North Michigan Ave., Chicago, Illinois 60601.

Consul : Col. George P. Bickford. *Address :* Consulate of India, 1144, Union Commerce Bldg., Cleveland. (Ohio).

Consul : Mrs. G. J. Watumull. *Address :* Consulate of India, 2227-A, Kalakaua Avenue, Honolulu. (Hawaii).

Consul-General : Neils F. Johnson. *Address :* Consulate-General of India, 2701, International Trade Mart, New Orleans, L A 70130.

Consul-General : K. Srinivasan. *Address :* Consulate-General of India, 3-East, 64th Street, New York. N.Y. 10021.

Consul-General : L. L. Mehrotra. *Address :* Consulate-General of India, 215, Market St., San Francisco, Cal. 94105.

UPPER VOLTA : *Ambassador* (also Amb. to Liberia & High Commr. to Ghana & Sierra Leone) : P. A. Nazareth. Resident in Accra. (Embassy of India, Ouagadougou).

URUGUAY : *Ambassador* (also Amb. to Argentina & Paraguay) : Vacant. Resident in Buenos Aires. (Embassy of India, Montevideo).

Consul : Adolf Vegh. *Address :* Consulate of India, Plaza Zabala 324, Montevideo.

VENEZUELA : *Ambassador* (also Consul-General to Netherlands Antilles) : Nirmal Jeet Singh. *Address :* Embassy of India, Edificio Nuevo Centro Piso 7, Officina "B", Avenida, Libertador Apartado de Correos del Este. [illegible], Chacao, Caracas—106.

VIETNAM (SOCIALIST REPUBLIC OF VIETNAM) : *Ambassador :* M. R. Sivaramakrishnan. *Address :* Embassy of India, 58, Tran Hung Dao St., Hanoi.

YEMEN ARAB REPUBLIC : *Ambassador :* B. D. Goswami. *Address :* Embassy of India, Al Amri Bldg., Gamal Abdul Nasser St., Sanaa.

YEMEN (PEOPLE'S DEMOCRATIC REPUBLIC OF) : *Ambassador :* I. M. Kanga. *Address :* Embassy of India, Premjee Chambers, Steamer Point, Aden.

YUGOSLAVIA (SOCIALIST FEDERAL REPUBLIC OF) : *Ambassador* (also Amb. to Greece) : N. [illegible] *Address :* Embassy of India, Dositejeva 26, [illegible]

ZAIRE REPUBLIC : *Ambassador* (also Amb. to Brazzaville Congo, Equatorial Guinea, Central African Empire & Gabon) : M. K. Khisha. *Address :* Embassy of India, [illegible] Avenue des Batetela, Kinshasa.

HIGH COMMISSIONS

AUSTRALIA : *High Commissioner :* J. C. [illegible] *Address :* 135, Monaro Crescent, Red Hills, Canberra A.C.T. 2603.

Consul-General : V. P. Singh. *Address :* Consulate-General of India, Caltex House, 167-187, Kent St., Sydney N.S.W. 2000.

BAHAMAS (COMMONWEALTH OF) : *High Commissioner* (also Amb. to U.S.A.) : N. A. Palkhivala. Resident in Washington.

BANGLADESH : *High Commissioner :* K. P. S. Menon. *Address :* Indian High Commission, Road No. 2, Dhanmondi Residential Area, Dacca 2. Asstt. High Commissions of India :—(1) 1/B, Baizid Bostami Rd., Nasirabad, Chittagong ; (2) Beldarpara, P.O. Ghoramara, Rajshahi.

BARBADOS & GRENADA : *High Commissioner* (also High Commr. to Trinidad & Tobago) : Gaj Singh Jodhpur. Resident in Port of Spain (Trinidad). *Address :* High Commission of India, Bridgetown.

BOTSWANA : *High Commissioner* (also High Commr. to Zambia) : K. Natwar Singh. Resident in Lusaka.

CANADA : *High Commissioner :* Gen. T. N. Raina. *Address :* High Commission of India, 200, McLaren St., Ottawa K 2P 0L6.

Consul-General : M. L. Suri. *Address :* Consulate-General of India, Suite 2900, Hudson's Bay Centre, II, Floor East St., Toronto (Ontario).

Consul-General : S. R. Chaudhuri. *Address :* Consulate-General of India, 325, Howe St., Vancouver 1 (B.C.).

CYPRUS : *High Commissioner :* (also Amb. to Lebanon) ; Dr. S. Sinha, Resident in Beirut. (High Commission of India, Nicosia).

FIJI : *High Commissioner* (also High Commr. to Nauru, Papua New Guinea & Kingdom of Tonga) : R. C. Arora. *Address :* High Commission of India, Suit No. 202, Fiji Dev. Bank Bldg., Victoria Parade, Suva. Jurisdiction extends to the UN Trust Territory of Caroline & Marshal Island : Solomon Island ; New Hebrides ; Gilbert & Elice Islands ; New Caledonia & Society Islands.

GAMBIA : *High Commissioner* (also Amb. to Senegal, Cape Verde Islands, Mali, Guinea Bissau & Ivory Coast) : Gajendra Singh. Resident in Dakar. (High Commission of India, Bathurst.)

GHANA : *High Commissioner* (also Amb. to Liberia & Upper Volta & High Commr. to Sierra Leone) : P. A. Nazareth. *Address :* High Commission of India, 5, Monkata Ave., Airport Residential Area, P. Box 3040, Accra.

GUYANA : *High Commissioner :* P. Lohari. *Address :* High Commission of India, No. 10, Avenue of the Republic, P. Box 872, Georgetown.

JAMAICA : *High Commissioner :* J. S. Doddamani. *Address:* High Commission of India, No. 4, Retreat Avenue, Kingston.

KENYA : *High Commissioner* (also High Commr. to Seychelles) : A. N. D. Haksar. *Address :* Jeevan Bharati Bldg., Harambee Avenue, Nairobi.

Asstt. Commissioner : B. P. S. Kapoor. *Address:* Commission of India, LIC Bldg., Nkrumaha Rd., Mombasa (Kenya).

LESOTHO : *High Commissioner* (also High Commr. to Malawi) : P. S. Sahai. Resident in Lillongwe. (High Commission of India, Maseru).

MALAWI : *High Commissioner* (also High Commr. to Lesotho) : P. S. Sahai. *Address :* High Commission of India, P. Box No. 681, Lillongwe.

MALAYSIA : *High Commissioner :* P. S. Sahai. *Address :* High Commission of India, P. Box No. 59, 19, Jalan Melaka, United Commercial Bank Bldg., Kuala Lumpur.

MALTA : *High Commissioner* (also Amb. to Italy) : A. K. Damodaran. Resident in Rome. (High Commission of India, Valletta.).

MAURITIUS : *High Commissioner :* Kailash Chandra. *Address :* High Commission of India, Bank of Baroda Bldg., Sir William Newton St., Port Louis.

NAURU : *High Commissioner* (also High Commr. to Fiji, Papua New Guinea and Kingdom of Tonga) : R. C. Arora. Resident in Suva.

NEW ZEALAND : *High Commissioner* (also High Commr. to Western Samoa) : B. Deva Rao. *Address :* High Commission of India, 49, Willis Street, Wellington.

NIGERIA : *High Commissioner* (also Amb. to Cameroun Niger. Dahomey & Togo) : Mrs. K. Rukmini Menon. *Address :* High Commission of India, 107, Awolowo Rd., Lagos. Information Service of India, Swikoyi, P.O. Box 2322, Lagos.

PAPUA NEW GUINEA : *High Commissioner* (also High Commr. to Fiji, Nauru and Kingdom of Tonga) ; R. C. Arora. Resident in Suva.

SEYCHELLES : *High Commissioner* (Also High Commr. to Kenya) : A. N. D. Haksar. Resident in Nairobi.

SIERRA LEONE : *High Commissioner* (also High Commr. to Ghana & Amb. to Liberia & Upper Volta). P. A. Nazareth. Resident in Accra. *Address : :* High Commission of India, Freetown.

Consul : R. D. Rajwani. *Address :* Consulate of India, P. Box 26, Freetown.

SINGAPORE : *High Commissioner :* Bhupatray Oza. *Address :* High Commission of India, India House, 31, Grange Rd., Singapore.

SRI LANKA : *High Commissioner* (also Amb. to Maldives Republic): Thomas Abraham. *Address :* High Commission of India, State Bank of India Bldg., Sir B. Jayatilleke Mawatha Fort, Colombo 1. *Asst. High Commissioner*, B. Srinivasan. *Address :* 31, Rajapihilla Mawatha, Kandy.

SWAZILAND : *High Commissioner* (also Amb. to Mozambique) : A. R. Kakodkar. Resident in Maputo.

TANZANIA : *High Commissioner :* A. S. Gonsalves. *Address :* High Commission of India, 11th Flr., 'A' Wing NIC Investment House, Mirambo St., Dar-es-Salaam.

Consul-General : L. T. Pudaite. *Address :* Consulate-General of India, Magombani, P. Box 871, Zanzibar.

TONGA, KINGDOM OF : *High Commissioner* (also High Commr. to Papua New Guinea, Nauru & Fiji) : R. C. Arora. Resident in Suva.

TRINIDAD & TOBAGO : *High Commissioner* : (also High Commr. to Barbados & Grenada. Commr. to the Associated States — Antigua, Dominico, St. Kitts — Nevi — Anguilla, St. Lucia ; also Commr. to St. Vincent, Monteserrat, Turks & Caicos and also Cayman Islands) : Gaj Singh Jodhpur. *Address :* Hig Commission of India, Cipriani Boulevard, P. Box No. 530, Port of Spain (Trinidad).

UGANDA : *High Commissioner* (also Amb. to Burundi & Rwanda) : Madan Jeet Singh. *Address :* High Commission of India, Bank of India Bldg., Kampala Rd., Kampala.

UNITED KINGDOM : *High Commissioner :* N. G. Goray. *Dy. High Commr.*, I. P. Singh. *Address :* India House, Aldwych, London, W.C. 2. NA. *Asstt. High Commissions of India :*—(1) 86, New St., Birmingham ; (2) Jaeger House, 62 Buchanan St., Glasgow GI 3JE.; (3) 4, Rodney St., Liverpool L 12 TE.

WESTERN SAMOA : *High Commissioner* (also High Commr. to New Zealand) : B. Deva Rao. Resident in Wellington.

ZAMBIA : *High Commissioner* (also High Commr. to Botswana) : K. Natwar Singh. *Address :* High Commission of India, Lusaka House, Cairo Rd., P.O. Box 2111, Lusaka.

SPECIAL MISSIONS

KENYA : *Permanent Representative of India to the U. N. Environment Programme,* P.B. No. 30074, Nairobi, A. N. D. Haksar.

UNITED NATIONS : *Ambassador/Permanent Representative :* Rikhi Jaipal. *Address :* Permanent Mission of India to the United Nations, New India House, 3-East 64th St., New York. Geneva Office : 7-9, Rue De Valais (6th Flr.), 1202, Geneva, *Ambassador Permanent Rep.:* C. R. Gharekhan. Permanent Mission of India to the Intnl. Orgns. in Vienna, Opernring, Vienna 1. *Amb. Permanent Rep.* (Also Governor for India on the Board of Governors of the Intnl. Atomic Energy Agency) : K. R. P. Singh.

COMMISSION

HONG KONG : *Commissioner for the Govt. of India :* M. J. Mangalmurthi. *Address :* Commission of India, [illegible] A.I.A. Bldg., 1, Stubbs Rd., Hong Kong.

FOREIGN DIPLOMATIC REPRESENTATIVES IN INDIA

EMBASSIES, CONSULAR AND TRADE OFFICES

AFGHANISTAN (DEMOCRATIC REPUBLIC OF) : *Ambassador :* Vacant. *Address :* B-54, Greater Kailash, New Delhi 110048.

Consul-General : Sharif Agier. *Address :* 115, Walkeshwar Rd., Bombay 400006.

ALGERIA : *Ambassador :* Omar Oussedik. *Address :* 13, Sunder Nagar, New Delhi 110003.

ARGENTINA : *Ambassador :* Fernando Fernandez Escalante. *Address :* 3/11, Shanti Niketan, New Delhi 110021.

AUSTRIA : *Ambassador :* Dr. Wolfgang Schallenberg. (Also Amb. to Bangladesh, Nepal & Sri Lanka). *Address :* 18, Jor Bagh, New Delhi 110003.

Hon. Consul-General : Dr. Burjor P. Godrej. *Address :* Godrej Bhawan, Home St., Bombay 400001.

Hon. Consul : Mrs. Anna Mukherji. *Address :* 96/1, Sarat Bose Rd., Calcutta 700026.

Trade Commr., Dr. B. Koch, 12-A, Amrita Shergill Mrg., New Delhi 110003 ; (Also handles Austrian trade affairs in Nepal, Bangladesh and Sri Lanka).

BAHRAIN (STATE OF) : *Consul :* Mohamed Hassan Kamaluddin. *Address :* Raj Mahal, 84, Veer Nariman Rd., Bombay 400020.

BELGIUM : *Ambassador :* J. Graeffe (Also Amb. to Nepal, Maldives & Sri Lanka). *Address :* 7, Golf Links, New Delhi 110003. (Embassy also looks after the economic & consular affairs of the Grand Duchy of Luxembourg).

Consul-General : R. Van Roy. *Address :* " Morena ", 11, M. L. Dahanukar Mrg., Bombay 400026. *Consul (Hon.):* Sunil Singh Roy. *Address :* 5/1A, Hungerford St., Calcutta 700017. *Consul (Hon.) :* M. Nevens. *Address :* 1-E, Spurtank Rd., Madras 600031.

BHUTAN : *Ambassador :* Lyonpo Sangye Penjor. *Address :* Chandra Gupta Mrg., Chanakyapuri, New Delhi 110021.

BOLIVIA : *Hon. Consul-General :* A. D. Khan. *Address :* 20, London St., Calcutta 700016.

BRAZIL : *Ambassador :* Roberto Luiz Assumpcao de Araujo. (Also Amb. to Sri Lanka & Nepal). *Address :* 8, Aurangzeb Rd., New Delhi 110011.

BULGARIA : *Ambassador :* Stoyan Vladimirov Zaimov. (Also Amb. to Singapore, Nepal & Sri Lanka). *Address :* 50, Golf Links Area, New Delhi 110003.

Counsellor for Trade & Economic Affairs : 50, Golf Links Area, New Delhi 110003. *Trade Rep. at Bombay :* 11, Peacock Palace, 69, Bhulabhai Desai Rd., Bombay 400026. *Trade Rep. at Calcutta :* 6-A, Middleton St., Calcutta 700016.

BURMA : *Ambassador :* U Maung Maung Shin. *Address :* Burma House, 3/50-F, Shanti Path, Chanakyapuri, New Delhi 110021.

CENTRAL AFRICAN EMPIRE : *Ambassador :* Jean Louis Guy Psimhis. *Address :* 59, Ring Rd., Lajpatnagar III, New Delhi 110024.

CHILE : *Ambassador :* Javier Illanes Fernandez. *Address :* 1/13, Shantiniketan, New Delhi 110021.

CHINA (PEOPLE'S REPUBLIC OF) : *Ambassador :* Chen Chao-Yuan. *Address :* 50-D, Shanti Path, Chanakyapuri, New Delhi 110021.

COLOMBIA : *Ambassador :* Antonio Izquierdo. *Address:* D-82, Malcha Marg, Chanakyapuri, New Delhi 110021.

COSTA RICA : *Consul-General :* A. K. Makani. *Address :* Standard Bldg., 346, Dr. D. Naoroji Rd., Bombay 400001.

CUBA : *Ambassador :* Dr. Jose Lopez Sanchez. *Address :* D-5, N.D.S.E. Part II, New Delhi 110049.

CZECHOSLOVAKIA : *Ambassador :* Pavol Kanka. (Also Amb. to Nepal). *Address :* 50-M, Niti Mrg., Chanakyapuri, New Delhi 110021.

Ag. Consul-General : Antonin Sys. *Address :* " Marcopia" 5, Deshmukh Marg, Cumbala Hill, Bombay 400026. *Ag. Consul :* Vacant. *Address :* 24B, Park St., Calcutta 700016.

Economic & Commercial Counsellor & Trade Representative : 50-M, Niti Mrg., Chanakyapuri, New Delhi 110021. *Trade Commr. :* Kasturi Bldgs., Jamshedji Tata Rd., Bombay 400020. *Trade Commr. :* 24-B, Park St., Calcutta 700016. *Trade Commr. :* 31-A, Haddows Rd., Madras 600006.

DENMARK : *Ambassador :* Per W. Frellesvig. (Also Amb. to Sri Lanka, Bangladesh & Nepal). *Address :* 2, Golf Links Area, New Delhi 110003.

Hon. Consul-General : H. Holck-Larsen. *Address :* L. & T. House, Ballard Estate, Bombay 400038. *Hon. Consul :* Sven Adolf Palm. *Address:* 18-G, Park St., Calcutta 700016. *Hon. Consul :* K. S. Narayanan. *Address :* [illegible] Mount Rd., Madras 600002.

Trade Commission, Pallonji Mansion, New Cuffe Parade, Bombay 400005.

DOMINICAN REPUBLIC : *Consul-General (Hon.) :* [illegible] H. Ismail. *Address :* Mistry Court, 208, D. Vachha Rd., Bombay 400020.

ECUADOR : *Consul :* Kalyan Sen. *Address :* 13, [illegible] St., Calcutta 700017. *In Charge of Consular Affairs :* [illegible] Ismail, Mistry Court, 208, D. Vachha Rd., Bombay [illegible]

EGYPT (ARAB REPUBLIC OF): *Ambassador:* Hisham Amer. *Address :* 55-57, Sunder Nagar, New Delhi 110003. *Press Bureau Office :* D-7, South Extn. II, New Delhi 110049.

Consul-General : Sayed Ali Said. *Address :* Sunita Bldg.. Ridge Rd., Malabar Hill, Bombay 400006.

EL SALVADOR : *Consul :* Karanjaksha Bonerjee. *Address :* 12, P. K. Tagore St., Calcutta 700006 & 186, Sarat Bose Rd., Calcutta 700029.

ETHIOPIA : *Ambassador :* Vacant. *Address :* 7/50-G, Satya Mrg., Chanakyapuri, New Delhi 110021.

FINLAND : *Ambassador :* Miss Ritta Orö. *Address:* 42, Golf Links, New Delhi 110003.

Hon. Consul : Sam F. Joshi. *Address :* Chartered Bank Bldg., M. Gandhi Rd., Bombay 400023.

FRANCE : *Ambassador :* J. C. Winckler. *Address :* 2, Aurangzeb Rd., New Delhi 110011. *Office of the Counsellor for Economic & Commercial Affairs :* 130, Jorbagh, New Delhi 110003. *Office of the Counsellor for Cultural, Scientific & Technical Co-operation :* D-25, South Extn., Part II, New Delhi 110049.

Consul-General : Jean-Francois ROUX. *Address :* Mercantile Bank Bldg., 52, M. Gandhi Rd., Bombay 400023. *Consul-General :* Roger FABRE. *Address :* 26, Park Mansions, Park St., Calcutta 700016. *Consul-General :* Georges ROCHICCIOLL. *Address :* 2, Rue de la Marine, Pondicherry 605001. *Consular Agent :* Christian Revel. *Address :* 7/75, Calvethy Rd., Cochin 682002.

Commercial Counsellor & Sr. Trade Commr., 130, Jor Bagh, New Delhi 110003 ; Trade Commr., " Beacon, " Foreshore Rd., Bombay 400021 ; Trade Commr., 13, Park Mansions, Park St., Calcutta 700016.

GABON : *Ambassador :* Barthelemy Monapa-Beotsa. Resident in Paris.

GERMAN DEMOCRATIC REPUBLIC : *Ambassador :* Heniz Birch Heinz. *Address :* 2, Nyaya Marg, Chanakyapuri, New Delhi 110021.

Ag. Consul-General : Gehard Mueller. *Address :* 122, Dinshaw Vachha Rd., Bombay 400020.

GERMANY (FEDERAL REPUBLIC OF): *Ambassador:* Dirk Oncken. *Address :* No. 6, Block 50-G, Shanti Path, Chanakyapuri, New Delhi 110021.

Consul-General : Mrs. Helene Schoettle. *Address :* Hoechst House, 10th Flr., Nariman Point, Bombay 400021. *Consul-General :* Werner Handke. *Address :* 1, Hastings Park Rd., Alipore, Calcutta 700027. *Consul-General :* Dr. Christian Hubener. *Address :* Mico Bldg., 22, Commander-in-Chief Rd., Egmore, Madras 600008.

GREECE : *Ambassador :* Dr. Basil Vitsaxis. *Address :* 16, Sunder Nagar, New Delhi 110024.

Consul-General : Anthony D. Mango. *Address :* Ralli House, 21, Raveline St., Bombay 400001. *Consul-General :* S. L. Dass. *Address :* C/o Indian Tube Co. Ltd., Tata Centre, 15th Flr., 43, Chowringhee Rd., Calcutta 700071.

GUATEMALA : *Ambassador accredited to India is stationed at Tokyo.*

GUINEA : *Ambassador :* Mamady Lamine Conde. Resident in Tokyo.

HAITI : *Consul :* Ranbir Singh. *Address :* Vellard View, Peddar Rd., Bombay 400026.

HOLY SEE : *Apostolic Pronuncio :* The Most Rev. Luciano Storero. *Address :* Niti Marg, Chanakyapuri, New Delhi 110021.

HONDURAS REPUBLIC : *In charge of Consular Affairs :* A. R. H. Ismail. *Address :* Mistry Court, 208, D. Vachha Rd., Bombay 400020.

HUNGARY : *Ambassador :* Janos Vertes. (Also Amb. to Nepal, Burma, Sri Lanka & Singapore). *Address :* 15, Jor Bagh, New Delhi 110003.

Commercial Counsellor & Trade Representative : Laszlo Szebeni, 18, Golf Links Area, New Delhi 110003. *Trade Commr. :* Tivadar Kapocsy, 11-A, Woodehouse Rd., Bombay 400039. *Trade Commr. :* Istvan Buday, 6/2, Gurusaday Rd., Calcutta 700019.

* ICELAND : *Hon. Consul :* D. K. Hirlekar. *Address :* 38, Western India House, Sir P. Mehta Rd., Bombay 400001.

INDONESIA : *Ambassador :* Vice-Admiral Sjamsul Bachri Tjipto-suhardjo. *Address :* 50-A, Chanakyapuri, New Delhi 110021.

Consul : Sirajuddin Arsad. *Address :* 17, Altamount Rd., Cumballa Hill, Bombay 400026. *Hony. Consul :* D. K. Nag. *Address :* Rajkamal Bhavan, 128, Rash Behari Avenue, Calcutta 700029.

IRAN : *Ambassador :* Vacant *Address:* 65, Golf Links, New Delhi 110003.

Consul-General : Masoud Moadel. *Address :* Baldota Bhavan, 117, Maharshi Karve Rd., Bombay 400020. *Consul-General :* Ali Khani. *Address :* 8-2, 502/1, Road No. 7, Jubilee Hills, Hyderabad 500034.

IRAQ : *Ambassador :* Jihad Karam. *Address :* 169-171, Jorbagh, New Delhi 110003.

Consul-General : Salwan Ali Al-Kassar (*Ag.*). *Address :* " Panorama ", 203, Walkeshwar Rd., Bombay 400006.

IRELAND : *Ambassador :* Vacant. *Address :* 13, Jor Bagh, New Delhi 110003.

ISRAEL : *Consul :* S. Armon. *Address :* 50, Peddar Rd., Bombay 400026.

ITALY : *Ambassador :* Dr. Carlo Calenda. *Address :* 13, Golf Links, New Delhi 110003.

Consul-General : Dr. Salvatore Corsini. *Address :* 3, Raja Santosh Rd., Alipore, Calcutta 700027. *Consul-General :* Dr. Sergio Emina. *Address :* Vaswani Mansion, D. Vachha Rd., Bombay 400020. *Hony. Consul :* G. K. Devarajulu. *Address :* Kowdi & Co. Bldg., W. Island, Cochin 682003. *Hon. Consular Agent :* T. M. Nagnath. *Address :* C/o Alitalia, 150/A, Mount Rd., Madras 600002.

Trade Commr. : Dr. F. Romano, Nirmal, 21st Flr., Nariman Point, Bombay 400021.

JAPAN : *Ambassador :* Masao Kanazawa. *Address :* Plot Nos. 4 & 5, Block 50-G, Shanti Path, Chanakyapuri, New Delhi 110021.

Consul-General : K. Murono. *Address :* 12, Pretoria St., Calcutta 700071. *Consul-General :* S. Horino. *Address :* 1 Babasaheb Dahanukar Marg, Bombay 400026. *Consul-General :* K. Furusawa. *Address :* 20, Nungambakkam High Rd., Madras 600034.

JORDAN : *Ambassador :* Zuhair Hashim Khair. (Also Amb. to Thailand & Sri Lanka). *Address:* 35, Malcha Marg, Chanakyapuri, New Delhi 110021.

Consul : Fakirmohamed K. Mistry. *Address :* Mistry Court, D. Vachha Rd., Bombay 400020.

KOREA (DEMOCRATIC PEOPLE'S REPUBLIC OF) : *Ambassador :* Yu Song Jing. *Address :* 11, Barakhamba Rd., New Delhi 110001.

KOREA (REPUBLIC OF): *Ambassador :* Bum Suk Lee. *Address :* B-2/16, Vasant Vihar, New Delhi 110057.

*** Peter Thorsteinsson is the first non-resident Ambassador of Iceland to India.**

KUWAIT : *Ambassador :* Essa A. Al-Essa. *Address :* 19, Friends Colony West, New Delhi 110065.

Consul-General : Faisal Essa Yousuf. *Address :* Vaswani Mansion, D. Vachha Rd., Bombay 400020.

LAO PEOPLE'S DEMOCRATIC REPUBLIC : *Ambassador :* Kithong Vongsay (Also Amb. to Sri Lanka & Nepal). *Address :* 4, Circular Rd., Chanakyapuri, New Delhi 110021.

LEBANON : *Ambassador :* Rabia Haidar. (Also Amb. to Nepal, Sri Lanka, Indonesia & Thailand). *Address :* 10, Sardar Patel Mrg., Chanakyapuri, New Delhi 110021.

LIBERIA : *Ambassador*, C. Ansumana Cooper.

Consul-General : P. K. Bonerjee. *Address :* 186, Sarat Bose Rd., Calcutta 700029.

LIBYA : *Ambassador :* Dr. Mohammed Yousaf Al-Magariaf. *Address :* 44-A, Amrita Shergill Mrg., New Delhi 110003.

MEXICO : *Ambassador :* Dr. Jose Antonio Lara-Villarreal,. *Address :* N-88, Panch Sheela Park, New Delhi 110017.

MONACO : *Consul-General (Hony.) :* R. Chattaram. *Address :* D-1, Defence Colony, New Delhi 110024.

MONGOLIAN PEOPLE'S REPUBLIC : *Ambassador :* Vacant. (Also Amb. to Nepal, Sri Lanka Thailand, Singapore and Bangladesh). *Address :* 34, Golf Links, New Delhi 110003.

MOROCCO : *Ambassador :* Abdelhaq Saadani. *Address :* 33, Golf Links, New Delhi 110003.

NEPAL : *Ambassador :* Vedanand Jha. *Address :* Barakhamba Rd., New Delhi 110001.

Consul-General : Madhav R. Bhandari. *Address :* 19, Woodlands, Sterndale Rd., Alipore, Calcutta 700027.

NETHERLANDS : *Ambassador :* Hendricus Leopold. (Also Amb. to Nepal, Sri Lanka & Burma). *Address :* 6/50F, Shanti Path, Chanakyapuri, New Delhi 110021. (Embassy looks after the diplomatic affairs of the Grand Duchy of Luxembourg).

Consul-General : Vacant. *Address :* 3rd Flr., "International", 16, Maharshi Karve Rd., Bombay 400020. *Consul :* Vacant. *Address :* 18-A, Brabourne Rd., Calcutta 700001. *Consul :* A. Steward. *Address :* Chordia Mansion, 150/A-2, Anna Salai, Madras 600002. *Consul :* S. S. Koder. *Address :* Princess St., Fort, Cochin 682001.

NICARAGUA : *Hon. Consul :* S. J. Rege. *Address :* 4, Prem Court, J. Tata Rd., Bombay 400020.

NORWAY : *Ambassador :* Per Anders Jahn Gulowsen. (Also Amb. to Sri Lanka, Bangladesh & Nepal). *Address :* Kautilya Marg, Chanakyapuri, New Delhi 110021.

Consul-General : Crasten Gylseth. *Address :* Nowroji Mansion, 31, Nathalal Parekh Mrg., Bombay 400039. *Consul :* T. Ericsen. *Address :* 18G, Park St., Calcutta 700016. *Consul :* P. J. Weavers. *Address :* Harrissons & Crossfield Ltd., P. Box 502, Cochin 682003. *Consul :* C. D. Gopinath. *Address :* 52/53, Jehangir St., Madras 600001.

OMAN (SULTANATE OF) : *Ambassador :* Vacant. *Address :* 1/17, Shaniti Niketan, New Delhi 110021.

Consul-General : Essa Mohammed Essa. *Address :* 21, Jolly Maker Apartments III, Backbay Reclamation, Cuffe Parade, Bombay 400005.

PAKISTAN : *Ambassador :* Abdul Sattar. *Address :* 2/50-G, Shantipath, Chanakyapuri, New Delhi 110021.

PANAMA : *Ambassador accredited to India is stationed at Cairo.*

PARAGUAY : *Ambassador accredited to India is stationed at Tokyo.*

PERU : *Ambassador :* Dr. Juan Vargas Q *Address :* 3/5, Shantiniketan, 1st Flr., New Del

Incharge of Consular Affairs in New Delhi and B Cesar Castillo R., Embassy of Peru, 3/5, Shant New Delhi 110021. Ardeshir B. K. Dubash (Hon. C 6, K. Dubash Mrg., Bombay 400023.

PHILIPPINES : *Ambassador:* Romeo S. (Also Amb. to Nepal & Afghanistan). *Address* Nyaya Marg, Chanakyapuri, New Delhi 110021.

Hon. Consul-General : K. R. Patel. *Address :* 10, L Bazar St., Calcutta 700001. *Hon. Consul-General :* M. A. Chidambaram. *Address :* SPIC Bldg., 38-39, Mount Rd., Madras 600032. *Hon. Consul-General :* A. V. Birla. *Address* 159, Churchgate Reclamation, Bombay 400020.

POLAND : *Ambassador :* Jan Czalpa. *Address :* 22, G Links, New Delhi 110003.

Consul : Edmund Kaczmarek. *Address :* Manavi Apartments, 36, Ridge Rd., Malabar Hill, Bombay [illegible] *Consul :* Alojzy Melich. *Address :* 3B, Albert Rd., C 700017.

Commercial Counsellor : K. Potocki. *Address :* Polish Commercial Counsellor's Office, 42-44, Sunder Nagar, New Delhi 110003.

PORTUGAL : *Ambassador .* Dr. Luis Gaspar da Silva. *Address :* A-24, West End Colony, New Delhi 110021.

QATAR : *Ambassador :* Dr. Hassan Ali Hussain al-Nimah. *Address :* A-3, West End Colony, New Delhi 110021.

ROMANIA (SOCIALIST REPUBLIC OF) : *Ambassador :* Dr. Dumitru Niculescu. *Address :* 9, Tees January Marg, New Delhi 110011.

Trade Representation of Socialist Republic of Romania in India, 17, Kautilya Mrg., New Delhi 110021; Steelcrete House, Dinshaw Vachha Rd., Bombay [illegible]; Nilhat House, 11, Rajendra Nath Mukherjee Rd., Calcutta 700001; 27, Khader Nawaz Khan Rd., Madras 600006.

SAN MARINO : *Consul-General (Hony.) :* Gr. Uff. Bhai Mohan Singh. *Address :* 15, Aurangzeb Rd., New Delhi 110011.

SAUDI ARABIA : *Ambassador :* Saleh Al-Sugair *Address :* 1, Eastern Avenue, Maharani Bagh, New Delhi 110014.

SENEGAL : *Ambassador :* Dr. Babacar Diop. *Address :* F-63, Poorvi Mrg., Vasant Vihar, New Delhi 110057.

SOMALI DEMOCRATIC REPUBLIC : *Ambassador :* Abdullahi Egal Nur. *Address :* B-23, Greater Kailash I, New Delhi 110048.

SPAIN : *Ambassador :* Leopoldo Martinez de Campos: Count of Santovenia. *Address :* 12, Prithviraj Rd., New Delhi 110011.

Vice-Consul : Mrs. Kulsum Ardeshir Dubash. *Address* "Ador House", 6, K. Dubash Mrg., Bombay 400023. *Vice-Consul :* Pritindra Nath Ray Chowdury. *Address :* 10, Old Post Office St., Calcutta 700001. *Vice-Consul :* Chevalier George P. J. Lobo. *Address :* "Lawdale", 8, Nimmo Rd., San Thome, Mylapore, Madras 600004.

SUDAN : *Ambassador :* Ibrahim Taha Ayoub. (Also Amb. to Sri Lanka, Indonesia & Malaysia). *Address :* 6, Jor Bagh, New Delhi 110003.

Consul-General : M. A. Hamad. *Address :* Flat No. Mistry Court, D. Vachha Rd., Bombay 400020.

SWEDEN : *Ambassador :* Tor Lenhart Finnmark. (Also Ambassador to Nepal and Sri Lanka). *Address :* [illegible] Marg, Chanakyapuri, New Delhi 110021.

Co-opn. Office : A10/7, Vasant Vihar, New Delhi 110057. *Commercial Section :* Swedish Embassy, Chanakyapuri, New Delhi 110021.

Consul-General : Akbar Hydari. *Consul :* A. F. Mody. *Address :* Indian Mercantile Chambers, Nicol Rd., B. Estate, Bombay 400038. *Consul :* T. Ericson. *Address :* 18-G, Park St., Calcutta 700016. *Consul :* G. Rundberg. *Address :* 71, First Main Rd., Raja Annamalasipuram, Madras 600028.

SWITZERLAND : *Ambassador :* Etienne Suter. (Also Amb. to Nepal & Bangladesh). *Address :* Nyaya Marg, Chanakyapuri, New Delhi 110021.

Consul-General : J. Etter. *Address :* Manek Mahal, 90, Veer Nariman Rd., Bombay 400020.

SYRIAN ARAB REPUBLIC : *Ambassador :* Abdallah Fikri Khani. *Address :* 28, Vasant Mrg., Vasant Vihar, New Delhi 110057.

Consul-General : Sobhi Elejel. *Address :* Cambatta. Bldg., 3rd Flr., J. Tata Rd., Bombay 400020.

THAILAND : *Ambassador :* Dr. Suchati Chuthasmit. *Address :* 56-N, Nyaya Marg, Chanakyapuri, New Delhi 110021.

Consul-General : Nibondh Sathaporn. *Address :* 18-B Mandeville Gardens, Ballygunge, Calcutta 700019.

TURKEY : *Ambassador :* Oktay Iscen. *Address :* 27, Jor Bagh, New Delhi 110003.

Hon. Consul-General : Vacant. *Address :* 208, D. Vachha Rd., Bombay 400020. *Hon. Consul-General :* Mrs. Guldev Bose. *Address :* " Nilhat House ", 2, Nazarali Lane, Ballygunge, Calcutta 700019. *Hon. Consul-General :* Vacant. *Address :* 115, Lloyds Rd., Cathedral P.O., Madras 600006.

U.S.S.R. : *Ambassador :* Yuli Mikhailovich Vorontsov. *Address :* Shanti Path, Chanakyapuri, New Delhi 110021.

Consul-General : Victor I. Sizov. *Address :* " Palm Beach ", 42, L. Jagmohandas Mrg., Bombay 400036. *Consul-General :* A. Vizirov. *Address :* 31, Shakespeare Sarani, Calcutta 700016. *Consul-General :* V. B. Koshelev. *Address :* 9, Santhome High Rd., Madras 600004.

Trade Representation of U.S.S.R. in India, Plots Nos. 6 & 7, Block 50-E, Nyaya Mrg., Chanakyapuri, New Delhi 110021 ; Felan, Alipur Avenue 7, Calcutta 700027 ; " Avantika, " 46, Dr. G. Deshmukh Mrg., Bombay 400026 ; 50-A, St. Mary's Rd., Alwarpet, Madras 600001. *Showrooms of Soviet Books & Periodicals :* Vasundhara House, Bhulabhai Desai Rd., Bombay 400026 and at Calcutta at the above address. *Showrooms of Soviet Books and Periodicals :* G-56, Connaught Place, New Delhi 110001 ; 75/C, Park Street, Calcutta 700016 ; Vasundhara House, Bhulabhai Desai Rd., Bombay 400026.

UNITED ARAB EMIRATES : *Ambassador :* Mohamed Abdul Lateef Rashed. *Address :* A-7, West End, Rao Tula Ram Mrg., New Delhi 110021.

Consul-General : Ebrahim Jawad Al Ridha. *Address :* Bungalow No. 7, Jolly Maker Apartments, Cuffe Parade, Colaba, Bombay 400005.

UNITED STATES OF AMERICA : *Ambassador :* Dr. Robert F. Goheen. *Address :* Shanti Path, Chanakyapuri, New Delhi 110021.

Consul-General : William F. Courtney. *Address :* " Lincoln House ", 78, B. Desai Rd., Bombay 400026. *Consul-General :* Raymond L. Perkins Jr. *Address :* 5/1, Ho Chin Minh Sarani, Calcutta 700071. *Consul-General :* Charles W. McCaskill. *Address :* " Lincholn ", 2A, Chamier's Rd., Madras 600028.

UPPER VOLTA : *Consul-General :* P. K. Bonerjee. *Address :* 186, Sarat Bose Rd., Calcutta 700029.

VENEZUELA : *Ambassador :* Tulio Cardozo Faria. *Address :* N-114, Panchshila Park, New Delhi 110017.

VIETNAM (SOCIALIST REPUBLIC OF VIETNAM): *Ambassador :* Nguyan Van Sinh. *Address :* 35, Prithviraj Rd., New Delhi 110011.

YEMEN (PEOPLE'S DEMOCRATIC REPUBLIC OF): *Ambassador :* Alawi Abdul Rehman Assakaff. *Address :* 68, Ring Rd., Lajpatnagar 111, New Delhi 110024.

Consul : Mohamed Abdulla Mohamed Almas. *Address :* 22, Hassan Mahal, Dalamal Parks, Cuffe Parade, Bombay 400005.

YUGOSLAVIA (SOCIALIST FEDERAL REPUBLIC OF) : *Ambassador :* Andjelko Blazevic. *Address :* 3/50G, Shanti Path, Chanakyapuri, New Delhi 110021.

Chancellor (In-charge) of Consulate-General, Dragoslav Obradovic. *Address : :* Vaswani Mansions, 120/4, D. Vachha Rd., Bombay 400020. *Consul-General :* Beljic Milos. *Address :* 6, Ballygunge Park Rd., Calcutta 700019.

Trade Commr. : Miran Heric, Vaswani Mansion, 120/4, D. Vachha Rd., Bombay 400020. Madras Office, 9, Venus Colony, Madras 600018.

ZAIRE REPUBLIC : *Ambassador :* Nzau Makunga. *Address :* 160, Jorbagh, New Delhi 110003.

HIGH COMMISSIONS

AUSTRALIA : *High Commissioner :* Peter J. Curtis. *Address :* 1/50G, Shanti Path, Chanakyapuri, New Delhi 110021.

Commercial Counsellor & Trade Commr., 1/50 G, Shantipath, Chanakyapuri, New Delhi 110021.

BANGLADESH : *High Commissioner :* Abdul Ahsan (Also Amb. to Bhutan). *Address :* 56, Ring Rd., Lajpatnagar, New Delhi, 110024.

BRITAIN : *High Commissioner :* John Adam Thomson, C.M.G. *Address :* Shanti Path, Chanakyapuri, New Delhi 110021. *British Council Divn. :* 21, Jorbagh, New Delhi 110003. *Deputy High Commr. :* E.F.G. Maynard. *Address :* 1, Ho Chi Minh Sarani, Calcutta 700016. *Deputy High Commr. :* Eric Young, O.B.E. *Address :* Mercantile Bank Bldg., Mahatma Gandhi Rd., Bombay 400023. *Deputy High Commr. :* N. A. I. French, C.M.G., M.V.O., *Address :* Local Library Authority Bldg., 150-A, Anna. Salai, Madras 600002.

T. Wood, *Counsellor (Economic & Commercial)*, British High Commn., Shantipath, Chanakyapuri, New Delhi 110021. D. L. S. Coombe, First Secretary (Comml.), Dy. High Commn., 1, Ho Chi Minh Sarani, Calcutta 700016. R. W. Sear, Second Secretary (Comml.), Dy. High Commn., Mercantile Bank Bldg., M. Gandhi Rd., Bombay 400023. A. P. Ceurvoest, M.B.E., First Secretary (Comml.), Dy. High Commn., 150-A, Anna Salai, Madras 600002.

CANADA : *High Commissioner :* R. L. Rogers. (Also Amb. to Nepal). *Address :* 7/8, Shantipath, Chanakyapuri, New Delhi 110021.

Counsellor (Development & Commercial), Canadian High Commission, Shantipath, Chanakyapuri, New Delhi 110021.

GHANA : *High Commissioner :* Paul Boakye Duah. *Address :* A-42, Vasant Mrg., Vasant Vihar, New Delhi 110057.

GUYANA : *High Commissioner :* Edward Victor Luckho (Also High Commr. to Sri Lanka). *Address :* F-6/4, Vasant Vihar, New Delhi 110057.

KENYA : *High Commissioner :* P. G. Gitonga. (Also Amb. to Japan & High Commr. to Sri Lanka). *Address :* E-27, Defence Colony, New Delhi 110024.

MALAYSIA : *High Commissioner :* Mon Bin Jamaluddin. *Address :* 50-M, Satya Mrg., Chanakyapuri, New Delhi

110021. *Asstt. High Commr.:* Tuan Haji Gulam Haniff Karim. *Address:* 110/1, Mount Rd., Teynampet, Madras 600018.

MAURITIUS: *High Commissioner:* Rajmohunsing Jomadar. *Address:* 5, Kautilya Marg, Chanakyapuri, New Delhi 110021.

Hon. Consul-General: A. S. Kably. *Address:* Corinthian, Near Strand Cinema, Bombay 400005.

NEW ZEALAND: *High Commissioner:* Vacant. (Also High Commr. to Bangladesh & Amb. to Nepal). *Address:* 39, Golf Links, New Delhi 110003.

NIGERIA: *High Commissioner:* Chief J. O. Omolodun. (Also Amb. to Thailand & Burma and High Commr. to Bangladesh & Sri Lanka). *Address:* 21, Palam Mrg., Vasant Vihar, New Delhi 110057.

SINGAPORE: *High Commissioner:* Haji Yaacob Mohamed. *Address:* 48, Golf Links, New Delhi 110003.

SRI LANKA (DEMOCRATIC SOCIALIST REPUBLIC OF): *High Commissioner:* T. B. Panabokke. *Address* 27, Kautilya Marg, Chanakyapuri, New Delhi 110021. *Dy. High Commissioner,* S. Gauthamadasa. *Address:* 3, Shafee Mohd. Rd., Rutland Gate, Madras 600006.

Trade Commissioner: Sri Lanka House, 34, Homi Mody St., Bombay 400023.

TANZANIA: *High Commissioner:* George Nhinguia. *Address:* E-106, 'Hill View', Greater Kailash, New Delhi 110048.

TRINIDAD & TOBAGO: *High Commissioner:* J. R. P. Dumas. *Address:* 131, Jor Bagh, New Delhi 110003.

UGANDA: *High Commissioner:* W. S. K. Matovu. *Address:* 61, Golf Links, New Delhi 110003.

ZAMBIA: *High Commissioner:* A. C. Chalikulima. *Address:* 15, Jorbagh, New Delhi 110003.

U.N. & OTHER BODIES IN INDIA

UNITED NATIONS, 55, Lodi Estate, New Delhi 110003.

United Nations Development Programme (UNDP)

It is the world's largest multi-national source of pre-investment assistance and technical co-operation. It makes available to the developing nations the combined knowledge, expertise & experience of the United Nations family of agencies. *Resident Rep.:* Jan Huyser.

United Nations Information Centre, 55, Lodi Estate, New Delhi 110003.

The Centre maintains a close working relationship with national & local information media, institutions, govtl. information services & non-govtl. organisations on matters relating to the dissemination of information about the U.N. and the specialized agencies. *Director:* Dr. Johann Szuszkiewdcz.

U. N. Children's Fund (UNICEF)

Regnl. Office for Afghanistan, Sri Lanka, India, Bhutan, Maldives, Nepal & Mongolia, UNICEF House, 11, Jorbagh, New Delhi 110003.

Zone Offices: Middle India Office, 4-8, Green Park, New Delhi 110016; *East India Office,* 26, Lee Rd., Calcutta 700020; *North India Office,* House No. 752, Sector 8-B, Chandigarh 160011; *South India Office,* Ex-Legislators' Hostel Annexe, Govenment House Estate, Mount Rd., Madras 600002; *South East India Office,* 16, Uma Nagar, Begumpet, Hyderabad 500016; *Upper India Office,* B-7, L-Park, Mahanagar Extn., Lucknow 226006; *West India Office,* Ravindra Mansion, D. Vachha Rd., Bombay 400020.

UNICEF is currently assisting programmes in the fields of child health, nutrition, edn. & welfare in 100 countries by putting voluntary contributions from 133 governments, donations from the public-at-large and the sale proceeds of UNICEF greeting cards to practical use.

UNICEF'S primary concern in India is the strengthening of national services for children & youth through long-range programmes covering child nutrition health, drinking water supply, rural development, food processing and village-level technology, urban community development, education and related welfare services. *Regnl. Dir. of South Central Asia:* Thomas G. Davies.

International Bank for Reconstruction and Development: (World Bank) 55, Lodi Estate, New Delhi 110003.

International Labour Organisation (Area Office), 7, Sardar Patel Marg, New Delhi 110021.

Estd. in 1928. Covers India, Sri Lanka, Bhutan, Nepal & the Maldive Islands. The ILO maintains contacts and relations with Govtl. agencies, organisations & insttns. in the regn. and workers' & employers' organisations. It explores the needs for technical assistance and assists in the preparation of projects within the ILO's fields of competency & in their implementation. It collects & disseminates information that is of interest to the regn. and/or to Hqrs. and relevant to ILO activities. The office also prospects candidates for ILO assignments abroad. It has a good reference library & undertakes the sale of ILO publications. *Director:* B. Ghosh.

United Nations Educational, Scientific and Cultural Organisation: (UNESCO) Regnl. Office for Science & Technology for South & Central Asia, and Office of the UNESCO Rep. to India, 17, Jor Bagh, New Delhi 110003. *Dir. & UNESCO Rep.,* Dr. V. G. Podoinitsin.

Food & Agricultural Organisation: (FAO) 55, Lodi Estate, New Delhi 110003. *Rep.,* Dr. Abdul Sahib Alwan.

World Health Organization, Regnl. Office for South-East Asia: World Health House, Indraprastha Estate, Ring Rd., New Delhi 110002. *Regnl. Dir.,* Dr. V. T. H. Gunaratne.

U.N. Military Observers Group in India & Pakistan, 1/AB, Purana Qila Rd., New Delhi 110001.

Afro-Asian Rural Reconstruction Organisation, C/117-118, Defence Colony, New Delhi 110024.

To restructure the economy of the rural masses in Africa & Asia, and to explore collectively opportunities for co-ordination of efforts for promoting welfare & eradication of thirst, hunger, disease & poverty amongst the rural people; *Membs:* 12 African & 13 Asian countries including one national level coop. organisation. *Pres.:* Republic of Philippines; *Vice-Pres.:* Arab Republic of Egypt, Republic of Korea; *Secy. Genl.:* S. M. [illegible] (Egypt); *Dir.:* M. R. Kaushal (India). *Pubs.:* "Rural Reconstruction" (*Quarterly*).

Asian-African Legal Consultative Committee, [illegible] Ring Rd., Lajpatnagar IV, New Delhi 110024.

League of Arab States Mission, 62, Golf Links, New Delhi 110003. *Chief Representative & Head of Mission:* Ibrahim Shukrallah.

Palestine Liberation Organisation, 3, Sunder Nagar, New Delhi 110003.

WHO'S WHO IN INDIA

ABBAS, Khwaja Ahmad, B.A., LL.B., Freelance Journalist & Film Producer. *b.* June 7, 1914. Sub-editor, later Sunday edition editor, and columnist, *The Bombay Chronicle*, 1935–46; Columnist, *Blitz;* produced & directed a number of social films incl. several award-winning pictures. *Address :* Philomena Apartments, Church Rd., Juhu, Bombay 400054.

ABDULLAH, Sheikh Mohamad, M.Sc. (Aligarh Univ.). Chief Minister, Jammu & Kashmir State since July 9, 1977. *b.* Dec. 5, 1905. Campaigned for responsible Govt. and formed the Muslim Confce. (1932), and took leading part in converting it into National Confce., 1938; launched 'Quit Kashmir' movement, 1946 and suffered imprisonment; Pres., All India States People's Confce., 1947; was Head, Emergency Admn., Kashmir (1947–48); Mem., Kashmir delegation from India to U.N.O.; M.P. till 1952; P.M., J. & K. State till 1953; detained, 1953–Apr. 7, 1964; externed from Kashmir, January 1971; allowed to re-enter State, June 1972; Chief Min., Feb. 1975–27th March, 1977. *Address :* Secretariat, Srinagar.

ABRAHAM, Kochakkan Chacko, B.A., L.T., Governor of Andhra Pradesh, since Aug. 14, 1978. *b.* Jan. 20, 1899. Elected to T.C. Assembly, 1954; Kerala Assembly, 1957, 1960, 1965; KPCC Pres., 1964–67; remained with Congress (O), after 1969 split; Mem., State Janata Executive. *Address :* Raj Bhavan, Hyderabad 500041.

ADVANI, Lal Kishinchand, Minister for Information & Broadcasting, Govt. of India, since Mar. 26, 1977. *b.* Nov. 8, 1927. Mem., R.S.S., since 1942; Jt. Secy., Rajasthan State Jana Sangh, 1952-57; Secy., Delhi State Jana Sangh, 1958-63; Vice-Pres., 1965-67; Pres., 1970-72; Pres., Bharatiya Jana Sangh, 1973–77; Leader, Jana Sangh Group in Delhi Metropolitan Council, Sept. 1966–Mar. 1967; Chairman, Delhi Metropolitan Council, April 1967–April 1970; elected to Rajya Sabha, April 1970 and re-elected from Gujarat, 1976; Leader, Jana Sangh Group in Rajya Sabha, since April 1974; Elected Gen. Secy., Janata Party when it was formed in Jan., 1977. *Address :* C–1/6, Pandara Park, New Delhi 110003.

AHMED KHAN, Aminuddin, Governor of Himachal Pradesh. *b.* Mar. 23, 1911. Elected to Rajasthan Vidhan Sabha in 1967 and became Min. for P.W.D., Transport, etc.; Ex-Chmn., Rajasthan State Agro-Inds. Corpn. Ltd.; Pres., Indo-German Socy., Jaipur, since 1965; Dargah Khawaja Sahib Cttee.; Patron, Delhi and Rajasthan Flying Clubs. *Address :* Raj Bhavan, Simla 171004.

AL-ESSA, H. E. Mr. Essa Abdul Rehman, Ambassador of Kuwait to India, since 1968. *b.* 1930. Min. of Finance & Kuwait Currency Board, 1953-62; Mem.: Kuwait Embassy, Washington, 1962-65; Kuwait delegation to U.N. & also Consul-Genl. in Washington, 1963; Charge d'Affaires, Algiers, 1965-66; Tunisia, 1966-68. *Address :* Embassy of the State of Kuwait, 19, Friends Colony West, New Delhi 110014.

AL-MAGARIAF, H. E. Dr. Mohammed Yousaf, Ambassador of the Socialist People's Libyan Arab Jamahiriya. *b.* 1940. Lecturer & Secy.-Genl., School of Trade & Economy, Univ. of Garyounis; Accountant-Genl., 1972–77; Amb., Sectt. of Foreign Affairs in Libya, 1977. *Address :* Embassy of Libya, 44-A, Amrita Shergill Mrg., New Delhi 110003.

ALI, Mr. Justice Syed Murtaza Fazl, B.A. Hons.), B.L., Judge, Supreme Court of India, since April, 1975. *b.* Dec. 20, 1920; Advocate, Patna High Court, Nov. 7, 1944, and Federal Court, Dec. 1949; worked on the panel of lawyers for the State of Bihar in the Patna High Court from 1950; Judge, Jammu and Kashmir High Court, 1958-67; Chief Justice, Jammu & Kashmir High Court, Dec. 1967–Mar. 1975; Chmn., Unlawful Activities (Prevention) Tribunal, 1971; Mem., Panel of Jurors for Nehru Award, 1972-75; Chairman, Adv. Bd. constituted by J. & K. Govt. under MISA; Vice-Pres., Amar Singh Club, Srinagar. *Address :* Supreme Court of India, Tilak Mrg., New Delhi 110001.

ALVA, Joachim, B.A., LL.B., Ex-M.P. (Rajya Sabha), Journalist and Advocate. *b.* Jan. 21, 1907, at Udipi, Karnataka. Took part in Freedom movement and twice imprisoned; Started *FORUM*, 1943; Mem., Stg. Cttee., A.I.N.E.C.; Sheriff of Bombay, 1949; twice Member, Exec. Cttee., Congress Parly. Party; Mem.: A.I.C.C., 1956-57, 1958, and 1969–70; Parly. Consultative Cttees. of Ext. Affairs, Defence, Fin. and Atomic Energy, 1957–61; Prov. Parlt. of India, 1950–52; MP (Lok Sabha), 1952-67; Indian Rep., Commonwealth Parly. Cfce., 1966; Alternate Indian Delegate to the U.N. Assembly, 1967; nominated member (Rajya Sabha) 1968; Chmn., Publicity and Propaganda Cttee., Indian National Congress, 1969; Delegate, Inter Parl. Conference, New Delhi, 1969. *Address :* 28, Rajendraprasad Rd., New Delhi 110001.

AMER, H.E. Mr. Hisham, B.Sc. (Pol. Sci.), Amb. of the Arab Republic of Egypt in India. *b.* Sept. 27, 1932. Assigned to Egyptian Missions in: Prague, 1955-57; San Francisco, 1957-60; Paris, 1964-68; New Delhi, 1972-75. *Address :* Embassy of the Arab Republic of Egypt, 55-57, Sunder Nagar, New Delhi 110003.

AMIN, Nanubhai Bhailalbhai, S.B. (Elec. Engg.), MIT-USA, M.S. (Elec. & Mech. Engg.), Cornell-USA. Industrialist; Chmn. & Mg. Dir.: Jyoti Limited, Vadodara. *b.* Oct. 2, 1919. Past Mem.: Society of Council for Scientific and Industrial Research, Govt. of India; Member: Semi-Govt. & Institutional Adv. Cttees.; Leader, Indian Industrialists' Goodwill Delegation, W. Asian countries; Press.: Central Gujarat Chamber of Commerce, Vadodara; Indian Council of Agri. Dvpt. (Gujarat); Citizens' Blood Donation Society, Vadodara; actively associated with M. S. Univ. of Vadodara & Sardar Patel Univ., Vallabh Vidyanagar; leading philanthropist interested in propagation of edn. & Community Welfare. *Address :* Jyoti Ltd., P.O. Chemical Industries, Vadodara 390003.

AMIN, Ramanbhai Bhailalbhai, Industrialist. *b.* May 19, 1913. Chmn.: Alembic Chem. Works Co. Ltd., Alembic Glass Industries Ltd., Shreno Ltd., Vadodara; Dist. Ind. Co-op. Bank Ltd., Neomer Ltd., Aavaran Ltd., Dharak Ltd.; Dir.: Gujarat State Fertilizers Co. Ltd., Gujarat Narmada Valley Fertiliser Co. Ltd., Paushak Ltd., The Central Pulp Mills Ltd., Lakhanpal National Ltd.; Ex-Pres., F.I.C.C. & I.; Central Gujarat Chamber of Commerce; Fedn. of Gujarat Mills and Industries; Mem.: Indian Instt. of Public Admn.; India-Japan Business Co-op. Cttee.; American Management Assn., etc. *Address :* Alembic Chemical Works Co. Ltd., Alembic Rd., Vadodara 390003.

ANAND, Dev, B.A. (Hons.), Motion Picture Actor-Producer-Director. *b.* Sept. 26, 1923; Leading role in Prabhat's *Hum Ek Hain* (1946); Important Films: *Ziddi* (1948); *Baazi* (1951); *Taxi Driver* (1954); *Munimji* (Film Critics' Best Actor Award 1955); *Kala Pani* ("Filmfare" Best Actor Award 1958); *Hum Dono* (1961); *Guide* (Multiaward winner — 1965) ; *Johny Mera Naam* (1970). *Tere Mere Sapne* (1971) ; *Amir Garib* (1974) ; *Warrant* (1976) ; completed more than 90 films ; produced about 20 films under the banner of *Navketan* ; currently producing and directing a film titled *Loot Maar* ; directed *Prem Pujari*, *Hare Rama Hare Krishna*, *Heera Panna* and *Ishk Ihsk Ishk*, *Des Pardes*. *Address :* 2, Iris Park, Juhu, Bombay 400054.

ANAND, Mulk Raj, B.A. (Hon.), Ph.D., Padma Bhushan (1967), Author, Novelist and Critic ; Editor, *Marg* Magazine. *b.* Dec. 12, 1905 ; Sometime Tagore Prof. of Literature, Punjab Univ., Chandigarh 1973–74 ; author of various novels ; Fellow, Lalit Kala Akademi. *Address :* 25, Cuffe Parade, Colaba, Bombay 400005.

ANNAMALAI, Sathappa Annamalai Palaniappa, M.A., B.L., Editor, *Kumudam* (Tamil Weekly). *b.* Dec. 12, 1924. *Address :* 151, Purasawalkam High Rd., P.B. No. 1008, Madras 600010.

ANSARI, KHALID, B.A. (Eng. Litt.), M.A. (Pol. Sci.), LL.B. (Bombay Univ.), M.A. (Journalism, Advtg. & Mass Communication) Stanford Univ., Calif. Mg. Dir., The Inquilab Publications Pvt. Ltd. Started *Sportsweek*, Oct. 1968 ; covered Commonwealth Games in Edinburgh, U.K., 1969 ; Asian Games, Bangkok, 1970 ; Olympics, Munich, 1972 ; Asian Games, Tehran, 1974, etc. ; Exec. Mem., All India Council of Sports, N. Delhi ; V. Chmn., Maharashtra Press Con. Cttee. ; Trustee, Indo-Arab Students Welfare League ; Pres., Sports Journalists Assn. of Bombay ; Bombay Urdu Newspapers Assn. ; Mem. : Central Board of Film Censors, Maharashtra State Sports Council. *Address : Sportsweek*, 156–D, J. Dadajee Rd., Bombay 400034.

APTE, Madhav Laxman, B.A., Industrialist. *b.* Oct. 5, 1932. Mg. Dir., Phaltan Sugar Works Ltd. ; Dir. : Kirloskar Electric Co. Ltd., A.C.C. Ltd., Laxmi Vishnu Textile Mills Ltd., Hindustan Sugar Mills Ltd., Gajra Bevel Gears Ltd., Indian Dyestuff Inds. Ltd., Voltas Ltd., Syarikat Gula N. S. (Sdn.), Berhad, Malaysia, etc. ; Chmn., Bombay Chamber of Commerce and Industry (1978–79) ; Ex-Pres. : Deccan Sugar Factories Assocn., Indian Sugar Mills Assocn., Maharashtra Chamber of Commerce, Maharashtra Economic Devpt. Council, etc. ; Vice-Chmn., Bombay Chamber of Commerce and Industry (1977–78) ; played against : M.C.C., 1951 ; First Test against Pakistan, 1952 ; West Indies, 1953 ; played Ranji Trophy Tournaments for a number of years. *Address :* 199, Churchgate Reclamation, Bombay 400020.

ARUNACHALAM, A. M. M., Industrialist. *b.* March 1918. Chmn. : Carborundum Universal Ltd. ; Bundy Tubing of India Ltd. ; Ambadi Engineering Berhad (Malaysia) ; Dy. Chmn. : Ashok Leyland Ltd. ; Binny Ltd. ; Chmn. and Mg. Dir. : Tube Investments of India Ltd. ; Dir. : Univ. Cables Ltd. ; Union Carbide India Ltd. ; Oriental Carbons Ltd. ; Alkali & Chemical Corpn. of India Ltd. ; Coromandel Engineering Co. Ltd. ; Coromandel Prodorite P. Ltd. ; Bhadrachalam Paperboards Ltd. ; Facit Asia Ltd., Mem. : Adv. Council to the Metropolitan Devpt. Authority, Madras ; Governing Council, Instt. of Technology, Madras ; Board of Governors, Instt. for Fin. Management & Research, Madras, etc. ; Hony. Counsul-General for Japan in Madras, 1962–65 ; awarded the Order of the Rising Sun by His Imperial Majesty, the Emperor of Japan ; Leader, Indian delegation to the 23rd Congress of the Fedn. of Commonwealth Chambers of Commerce, London. *Address :* " The Laurels ", 3, Chittaranjan Rd., Madras 600018.

ARUNACHALAM, M. V., B.Sc. (Hons.) (Madras), Industrialist. *b.* July 1927. Mg. Dir. : Carborundum Universal Ltd., Tube Investments of India Ltd. ; Dir. : [illegible] Products Ltd., Shriram Fibres Ltd., Hindustan [illegible] Ltd., Reserve Bank of India (Central Board) ; [illegible] Local Board, R.B.I. ; Pres. : Madras Instt. of [illegible] Southern India Chamber of Commerce, 1964 ; [illegible] F.I.C.C. & I., 1976–77 ; Dir , I.C.I.C.I. ; Rotary [illegible] for Rotary Dist. : 320 for 1970–71 ; Chmn. : [illegible] Fertilizers Ltd. *Address :* 1, Bishops Garden, off [illegible] Rd., Madras 600028.

ASSUMPCAO DE ARAUJO, H.E. Mr. Roberto Luiz, Ambassador of Brazil in India since 1972 and Sri Lanka, since 1973 and Kathmandu since 1977. *Educ.* Law Faculty, Univ. of Brazil ; graduated in Pol. [illegible] Univ. of Chicago and Instt. of Higher Military Studies. Joined Foreign Service and worked in various capacities in Brazilian Embassies in Paris and Vienna ; Consul in Milan, 1959-61 ; Minister Counsellor, Embassy in Paris, 1961-62 ; Charge d'Affairs, Moscow, 1962 ; Amb. to Argel, 1963-66 and to Prague, 1966-68 ; Amb. to Damascus and to Baghdad, 1969-72. *Address :* Embassy of Brazil, 8, Aurangzeb Rd., New Delhi 110011.

ATREYA, Dr. Bhikhan Lal, M.A., D.Litt., Knight Commander, Italy, 1949, etc., Philosopher and writer ; [illegible] Birla visiting professor of Indian Philosophy ; Editor : *Darshana International* ; *Physics International* ; [illegible] (Hindi). *b.* Sept. 24, 1897. *Address :* Atreya [illegible], P.O. Hindu University, Varanasi 221005.

BADAL, Prakash Singh, B.A., Chief Minister, Punjab State, since June 1977. *b.* 1926. Elected to Punjab Vidhan Sabha, 1957 ; left the Congress and joined the Akali Dal ; was returned to Vidhan Sabha in the 1969 mid-term poll on Akali ticket ; Min. in the Gurnam Singh Ministry in charge of Comm. Devpt., Animal Husb., Dairying, etc. ; became Chief Minister, Punjab, Mar. 27, 1970. *Address :* Chandigarh 160017.

BAHUGUNA, Hemwati Nandan, Minister for Petroleum and Chemicals & Fertilizers, Govt. of India, since 1977. *b.* April 25, 1919. M.L.A., U.P., 1952, 1957, 1962 and 1967 ; Parl. Secy. to the Min. of Labour & Social Welfare, 1957 ; Dy. Min. of Labour and Inds., 1958 ; Dy. Min. of Labour, 1962 ; Gen. Secy., U.P.C.C., 1963–69 ; A.I.C.C., 1969–1971 ; elected to Lok Sabha and served as Union Min. for Communications, 1971–73 ; Chief Minister, U.P., Nov. 8, 1973 ; resigned from the Congress and joined as Gen. Secy., Congress for Democracy, Feb. 2, 1977 ; elected to Lok Sabha, 1977. *Address :* Shastri Bhavan, Dr. Rajendra Prasad Rd., New Delhi 110001.

BAJAJ, Ramkrishna, Mg. Dir., Bajaj Electricals Ltd. *b.* Sep. 22, 1923. Chmn. : Hindusthan Sugar Mills Ltd., Hercules Hoists Ltd., etc. ; Vice-Chmn. : [illegible] Iron & Steel Works Ltd. ; Dir., Andhra Valley & Power Supply Co. Ltd., etc. ; Mem. : Exec. Cttee., F.I.C.C.I., Council for Fair Business Practices & A.I.M.O. ; Pres., Maharashtra Chamber of Commerce 1964–68 & Fair Trade Practices Assn. (1969–71) ; Chmn. : Development Corpn. of Vidharba Ltd. (1972–76) ; Vice-Pres. : Indian National Cttee. of Intl. Chamber of Commerce. *Address* Bajaj Bhawan, 226, Nariman Pt., Bombay 400021.

BALA MURALI KRISHNA, Mangalampalli, Kalaprapoorna by Andhra Univ. (1974) ; Gana Sudhakara, Gayaka Sikhamani, Gandharva Kalanidhi, Hon. Doctorate by J. Nehru Tech. Univ., Hyderabad, " Best Male Playback Singer ", Award (Govt. of India), etc., Musician. *b.* July 6, 1930. Music Producer, A.I.R., Vijayawada, Hyderabad & Madras ; Principal, Govt. Coll., Vijayawada ; [illegible] Telugu, Sanskrit & Tamil songs with unique style & popularised neglected ragas ; also proficient in violin, [illegible]

& kanjeera ; stage & screen actor ; play-back singer ; Asthana Vidwan, Tirupathi Devasthanam ; Vice-Pres., Guild of Karnatak Musicians ; Mem., Music Academy, Madras ; Secy., Thyaga Brahma Mahotsavam, Tiruvayyar. *Address :* Mahati, 11, Kanakasrinagar, Madras 600086.

BALAKRISHNAN NAIR, Prof. N., B.Sc. Hons., M.A., Ph.D., D.Sc., F.Z.S., F.Z.S.I., F.A. Sc., F.N.A. ; Caithness Gold Medal, Univ. of Madras, '49 ; Royal Socy., & Nuffield Foundn., Bursary, 1967 ; S. S. Bhatnagar Award 1971 ; Fellow, Indian National Science Academy, 1974 ; Indian Academy of Science, 1975 ; Visiting Professor, Institute Oceanografico, Venezuela, 1973–75 ; Fellow, Zoological Socy of Lond. and India ; UNESCO Fellowship for advanced studies in Norway, 1957 ; Dean, Faculty of Sci., Univ. of Kerala ; Mem. Sec. : State Cttee. of Sci. & Tech. ; National Fellow, U.G.C. ; Prof. of Marine Biology & Fisheries and Head, Deptt. of Aquatic Biology & Fisheries & Aquarium, Trivandrum. *b.* July 6, 1927. Distinguished in marine biology & oceanography with emphasis on malacology, littoral ecology & invertebrate physiology ; Pres., Kerala Academy of Biology ; Mem. : Senate, Academic Council & Faculty of Sci., Kerala Univ. ; Faculty of Sci., Calicut & Annamalai Univs. ; Editor "Aquatic Biology", Marine Biological Assn. of India, etc. *Address :* Deptt. of Aquatic Biology & Fisheries, Aquarium, Trivandrum 695007.

BANERJEE, Dr. Jayanta Nath, Chairman, Wander Ltd. and Mg. Director, Sandoz (India) Ltd., Spl. Exec. Magistrate, *b.* July 10, 1927 ; Mem. : Senate, Bombay Univ. ; Devpt. Council for Drugs & Pharmaceuticals ; National Formulary, Govt. of India; Indian Pharmacopoeia Cttee. ; Governing Body of Bombay College of Pharmacy ; British Pharmacological Socy. Vice-Pres., Commonwealth Pharmaceutical Assocn. ; Hon. Mem. : Pharmaceutical Socy. of Gr. Britain. *Address :* I, Rushilla, Carmichael Rd., Bombay 400026.

BAPPU, Manali Kallat Vainu, A.M. (Harv.), M.Sc.(Madras), Ph.D.(Harv.) ; Fellow, Indian National Sci. Academy ; Indian Academy of Scs. ; Hon. Fellow, Royal Socy. of Scs. of Liege ; Associate, Royal Astronomical Socy. of London ; Dir., Indian Instt. of Astrophysics, Kodaikanal, since 1960. Chmn., Indian National Cttee. for Astronomy, since 1972 ; *b.* Aug. 10, 1927 ; Co-discoverer, Comet Bappu-Bok-Newkirk, July 1949 & was awarded Donohoe medal of Astronomical Socy. of Pacific, Carnegie Post-doctoral Fellow, Mount Wilson & Palomar Observatories of the Carnegie Insttn. of Washington & California Instt. of Technology, 1951–52 ; Sr. Research Fellow, National Instt. of Scs. of India, 1954 ; Dir., U.P. State Observatory, Naini Tal, 1954–60 ; Mem., Intnl. Astronomical Union & its Vice-Pres., 1967–73 ; Pres., Commission on Solar Atmosphere (1976–79) ; Astronomical Socy. of India, 1973–74 ; Chmn. : Indian National Cttee. for Astronomy, 1972–78 ; awarded Shanti Swarup Bhatnagar Prize, 1970 for contribution to Physical Sciences. *Address :* Indian Instt. of Astrophysics, Bangalore 560034.

BARBORA, Golap, Chief Minister, Assam State, since Mar. 12, 1978. *b.* Aug. 1925. Took active part in freedom struggle ; joined Congress Socialist Group, 1945 and became its Gen. Secy. ; suffered imprisonment several times between 1947 and 1956 ; Pres., Assam Janata Party and was elected to Assam Leg. Assembly from Tinsukhia, Feb. 1978. *Address :* Dispur, Gauhati 781006.

BARNALA, Surjit Singh, Minister for Agriculture and Irrigation, Govt. of India, since June 18, 1977. *b.* Oct. 21, 1925. Participated in the Quit India Movement, 1942 ; started legal practice in Nabha State and became Public Prosecutor, 1950 ; Edn. Min., Akali Dal United Front Ministry, Punjab, 1969-1971 ; was Gen. Secy., Shiromani Akali Dal ; M.L.A., 1972 ; Advocate, Punjab and Haryana High Court. *Address :* Krishi Bhavan, Dr. Rajendra Prasad Rd., New Delhi 110001.

BARNES, Leo, B.A., LL.M., General Secretary, National Union of Seafarers of India. *b.* Nov. 6, 1932. Was a seaman ; joined seamen's movement, 1960 ; Mem., Merchant Navy Trng. Board since 1965 ; Board of Trustees of Seamen's Prov. Fund since 1967 ; Seamen's Employment Board (Foreign-going) since 1967 ; National Welfare Board for Seafarers since 1967 ; National Shipping Board since 1974 ; Expert Cttee. on Unemployment among Indian Seamen (G.O.I.), 1969. Trade Union Course at Harvard Univ., U.S.A. (1973). *Address :* A 59-1212, Azad Nagar, V. Desai Rd., Andheri (West), Bombay 400058.

BASU, Jyoti, B.A., Bar-at-Law, Chief Minister, West Bengal ; Member : Polit Bureau, Central Cttee. & W. Bengal State Cttee. of C.P.I. (M), since 1964. *b.* July 8, 1914. Was actively associated with Indian League (headed by late V. K. Krishna Menon), Fdn. of Indian Students in England and London Majlis during student days ; elected to Bengal Legislative Council in 1946. Went underground when Communist Party was banned in 1948. M.L.A., West Bengal, 1952-72 ; elected M.L.A. in 1977 elections. Was Mem. : Communist Party of India 1940 to 1967 ; Central Exec. Cttee. and National Council, C.P.I. ; West Bengal Cttee., C.P.I. ; detained without trial on several occasions since 1948 ; was leader of the opp. West Bengal Assembly ; Dy. Ch. Min., W. Bengal, March-Nov. 1967 ; and Feb. 1969-Mar. 1970. *Address :* 55-B, Hindustan Park, Calcutta 700029.

BASU, Dr. K. S., Vice-Chancellor, International Academy of Management. *b.* Feb. 8, 1915. Dir., Jamnalal Bajaj Institute of Management Studies, Bombay Univ. (1965–77); Pres., Asian Assn. of Management Orgn. (1968–71) ; Personnel Dir. and Mem. of the Board, Hindustan Lever Ltd., 1956–65 ; Pres.: All India Management Assn., 1963-66 ; Bombay Management Assn., 1961–64 ; Bombay Productivity Council, 1960–63 , Indian Institute of Personnel Management, 1964 ; Hon. Pres., Asian Assn. of Management Orgn. ; Vice-Pres., C.I.O.S. (International Assn. of Scientific Management) ; Visiting Prof., Univ. of Western Australia, 1970. *Address :* 13, Rajat Aptts., Mt. Pleasant Rd., Bombay 400006.

BENDRE, Narayan Shridhar, B.A. (Agra), *b.* 21st Aug. 1910. Painter ; Mem. : Gen. Council & Executive Board, Lalit Kala Academy, since 1954 (its Vice Chmn., 1962–72) ; Prof. of Painting and Dean, Faculty of Fine Arts, M.S. Univ. of Baroda (1959–66). *Address :* 10, Kala Nagar, Bandra-East, Bombay 400051.

BHABHA, C. H., M.A., B.Com., Hon. Magistrate, Chairman : United Carbon India Ltd.; Kelvinator of India Ltd.; Spencer & Co. Ltd.; Dir., Investment Corpn. of India ; The Tata Power Co. Ltd. ; Swadeshi Mills Co. Ltd., etc. *b.* July 22, 1910. Commerce Member, Interim Govt. of India, Sept. 1946 ; Mem., Works, Mines and Power, Govt. of India, Nov. 1946 ; Commerce Min., Govt. of India, 1947 ; Leader, Indian Delegation to and elected Vice-Pres., World Trade Cfce., Havana, Nov. 1947 ; Vice-Chmn., Rural Banking Enquiry Cttee. ; Chmn., Indian Banks Assn. (1955–61) ; Ex-Chmn., National Shipping Board. *Address :* 49, Cuffe Parade, Colaba, Bombay 400005.

BHABHA, Jamshed Jehangir, B.A. (Hons.), (Cantab.) ; Company director. *b.* Aug. 21, 1914, Bombay ; Dir. : Tata Sons Ltd. ; Tata Industries Ltd. ; Central India Spg., Wvg. & Mfg. Co. Ltd. ; Indian Hotels Co. Ltd. ; Indian Tube Co. Ltd. ; Stewarts & Lloyds of India

Ltd., etc. ; Chmn. : Tata Press Ltd., Tata Services Ltd., Tata McGraw-Hill Publishing Co. Ltd. ; Chmn. : Marg Publications ; V.-Chmn. : Associated Building Co. Ltd. ; V.-Chmn. & Founder Trustee-in-Charge : National Centre for the Performing Arts ; Trustee : Sir Dorabji Tata Trust, J. N. Tata Endowment for the Higher Educ. of Indians, Lady Tata Memorial Trust, J. R. D. Tata Trust, Prince of Wales Museum, Homi Bhabha Memorial Trust ; Chmn.: Governing Board, Tata Institute of Social Sciences, Bombay ; Mem. : Exec. Cttee. Indian Council for Cultural Relations, Court of Governors, Adm. Staff Coll. of India, Indian Institute of Science ; Governing Council, Natl. Instt. of Design ; Pres. : Friends of the Trees ; Mem. : Administrative Council of the Intnl. Fund for the Promotion of Culture UNESCO ; Mem. : Gen. Council & Exec. Board, Sangeet Natak Academy. *Address : Res. :* 12, Little Gibbs Rd., Malabar Hill, Bombay 400006. *Office :* Bombay House, Bombay 400023.

BHAGWATI, Mr. Justice Prafullachandra Natvarlal, B.A. (Hons.) (Maths.), LL.B., Judge, Supreme Court of India since July 1973. *b.* Dec. 21, 1921. While doing M.A. (Maths) joined National Struggle and was imprisoned, 1942 ; took his Law degree and started practice at Bombay High Court ; became Judge, Gujarat High Court, July 1960–Sept. 1967 : Actg. Governor, Gujarat State, Dec. 7–25, 1967 ; Chief Justice, Gujarat High Court, Sept. '67–July '73 ; became a judge of the Supreme Court on 17th July 1973; was Chmn. : Legal Aid Cttee., and Judicial Reforms Cttee., Govt. of Gujarat. Chmn. of the Gujarat Kendra of Bharatiya Vidya Bhavan ; Mem.: Law Faculty of Delhi Univ. and the M. S. Univ. of Baroda ; V. Chmn.: Permanent Standing Legal Aid Cttee. Set up by LAWASIA. *Address :* Supreme Court of India, New Delhi 110001.

BHARATI, Dr. Dharam Vir, M.A., Ph.D., Editor, *Dharmayug*, Bombay, since 1960. *b.* Dec. 25, 1926. ; Lecturer, Allahabad Univ. upto 1959 ; joined Times of India as Editor of *Dharmayug*, 1960. *Address :* 6, Shakuntal, Sahitya Sahawas, Bandra East, Bombay 400051.

BHAT, Janardhana Venkatesh, M.Sc., Ph.D., D.Sc., F.A.Sc., F.N.A. ; Moos Medal (1954) ; Purkyne Medal (1967) ; ICAR Emeritus Prof., 1973–76 ; Dir. of Research, Kasturba Medical College. *b.* Mar. 3, 1913. Lecturer, Asstt. Prof., Prof. & Head, Deptt. of Microbiology, St. Xavier's Coll., Bombay, 1935-53 ; Prof. of Microbiology, Indian Instt. of Science, Bangalore, 1953-73 ; Watumull Found. Fellow, U.S.A., 1945-47 ; Visiting Scientist, National Instts. of Health, Bethesda, 1962 ; Rafi Ahmed Kidwai Memorial Award, 1974 ; Emeritus Mem., American Soc. for Microbiology. *Address :* Kasturba Medical College, Manipal 576119 (Karnataka).

BHATNAGAR, R. N., Chairman & Mg. Dir., Bharat Petroleum Corpn. Ltd., since 1978. *b.* Oct. 11, 1926. Joined Burmah-Shell Refineries, 1952 ; Dy. Gen. Manager (Technl.), Koyali Refinery, Oct. 1968 : Gen. Manager, Barauni Refinery, 1969–71 ; Gen. Manager, Koyali Refinery, 1971–72 ; Gen. Manager, IOC Mktg. Divn., 1972–74 : Mg. Dir., IOC (Refineries & Pipelines Divn.), 1974-78. *Address :* Bharat Bhavan, Ballard Estate, Bombay 400038.

BHATTACHARJEA, Ajit Kumar, B.A. (Hons.), M.A., Editor, *Indian Express* Group of Newspapers. *b.* May 8, 1924. Sub-Editor & Staff Correspondent, *Hindustan Times*, New Delhi, 1946-50 ; Staff Reporter, Parly. Corspdt. & Spl. Rep., *The Statesman*, New Delhi/Calcutta, 1950-61 ; Spl. Corspdt. for *Hindustan Times* in U.S. & at U.N., 1961-67: Editor, *Hindustan Times*, 1967-71. Resident Editor, *The Times of India*, Bombay. 1971–74 ; Editor, *Everyman's*, '75. *Address :* 34, Nizamuddin [illegible] New Delhi 110013.

BHAVE, Acharya Vinoba, Social Worker. *b.* Sept. 11, 1895, in Gagoda, Kolaba Dist., Maharashtra. At the age of 10, took a vow of celibacy and dedicated his life to the service of the country ; joined the Sabarmati Ashram, 1916 ; was made the head of the new Ashram at Wardha ; started another hermitage at Paunar, near Wardha ; was named by Gandhiji as his first rep. in the individual C. D. movement, 1940 ; imprisoned in the Freedom movement ; originator of the Bhoodan Yagna Movement ; successfully persuaded the landlords to donate land for the landless poor ; distributed more than 15 lakh acres among landless peasants ; has travelled on foot over 40,000 miles since Sept. 1951 to promote the cause of Bhoodan which has now reached the phase of Gramdan and Gram Rajya; undertook peace mission in dacoit infested areas of Bhind and Morena Dts. of M. P., 1960, where 20 dacoits have surrendered ; toured Rangpur and Dinajpur Dist. of E. Pak. in connection with Bhoodan Movement, 1962 ; has studied all religions ; is a linguist, knows all Indian languages. *Address :* Sarva Seva Sangh, Rajghat, Varanasi P.O. (U.P.).

BHOGILAL, Pratap, M.A., Industrialist. *b.* Oct. 25, 1916 ; Mem., Govg. Council, Bombay Textile Research Assn. and its past Pres. ; Cttee. Mem., Indian Merchants' Chamber ; was its Pres. 1968 ; Cttee. Mem., Millowners' Assn. ; its Chmn. for three terms ; Pres., Shree Ram Mills Ltd. ; Dir. and former Vice-Chmn., Hindustan Polymers Ltd.; Director of many leading investment, engineering, textile, chemical and manufg. cos. *Address :* 26-A, B. G. Kher Marg, Malabar Hill, Bombay 400006.

BHOOTHALINGAM, Subramanya, M.A. (Cantab.), I.C.S. (Retd.), Chairman : Glaxo Laboratories (India) Ltd., Triveni Tissues Ltd., Advisory Council of American Express International Banking Corporation. *b.* Feb. [illegible] 1909 ; joined Indian Civil Service — 1931 ; Secy., Min. of Steel, Mines & Fuel, 1955–61 ; Min. of Fin., 196[illegible], Dept. of Econ. Affairs, 1964–66 ; Chairman, Cttee. on Rationalisation and Simplification of Tax Structure, Min. of Fin., 1966–67 ; Dir.-Gen., National Council of Applied Eco. Res., N. Delhi (1967–74) ; Chmn. : Study Group on Wages, Incomes and Prices, 1977–78. *Address :* 5, V[illegible] Marg, Vasant Vihar, New Delhi 110057.

BHUSHAN, Shanti, Min. for Law, Justice & Company Affairs, Govt. of India, since Mar. 26, 1977. *b.* Nov. 11, 1925. Legal practice, Allahabad High Court, 1948 ; Sr. Standing Counsel, 1962 ; Advocate-General, U.P., [illegible] 1970–71 ; was Chmn., U.P. Bar Council, 1969–70, [illegible] Treasurer, Cong. (O), 1972–77 ; treasurer, Janata Party, Jan. 1977–April 1977. *Address :* Shastri Bhavan, Dr. [illegible] Prasad Rd., New Delhi 110001.

BILLIMORIA, Smt. Gulestan Rustom, M.A., Licentiate, Trinity Coll. of Music, London ; Sheriff of [illegible] (1957) ; Social Worker ; closely connected with a [illegible] number of local, national and international [illegible] in the field of social welfare. *Address :* 4, [illegible] Road, Apollo Bunder, Bombay 400039.

BIRCH, H. E. Mr. Heinz, Ambassador of the German Democratic Republic to India. *b.* Mar. 9, 1927. Joined Foreign Service, 1955 ; Embassy in China, 1957–61 ; Min. of Foreign Affairs : Protocol Dn., 1961–63 ; later [illegible] and S. East Asia Dn. ; Sr. Mem., Adv. Group, [illegible] W. Europe Dn., 1971–76 ; Min. Plenipotentiary to U.K. and N. Ireland, 1976–77. *Address :* Embassy of G.D.R., 2, Nyaya Mrg., Chanakyapuri, New Delhi 110021.

BIRLA, Ganga Prasad, B.Sc., Industrialist ; Chmn. : Orient Paper Mills Ltd., Panafrican Paper Mills

(F.A.) Ltd., & Nigeria Engg. Works Ltd. *b.* Aug. 2, 1922. Vice-Chmn.: Hindustan Motors Ltd.; Ex-Pres., Indian Paper Mills Assn., & Employers' Assn., Calcutta. *Address :* Birla House, 8/9, Alipore Rd., Calcutta 700027; Office: 9/1, R. N. Mukherjee Rd., Calcutta 700001.

BIRLA, Ghanshyamdas, Hon. Doctor of Laws (B.H.U.) (1967). *b.* 1894. Mg. Dir. of Birla Gwalior Pvt. Ltd.; Mem., 2nd Indian Leg. Assembly; Pres.: Indian Chamber of Commerce, Calcutta, 1924; F.I.C.C. and I., 1929; founder of a number of educl. and other public insttns. in India; Mem.: Indian Fiscal Commn.; 2nd R.T.C., 1930; Royal Commn. on Labour, Delegate, Labour Cttee. at Geneva, 1927; Unofficial Adv. to Govt. of India for Indo-British Trade Negotiations, 1936–37. *Address :* 16A, Il Palazzo, Little Gibbs Rd., Malabar Hill, Bombay 400006; Birla House, New Delhi 110001.

BIRLA, Lakshminiwas, Industrialist. *b.* 1909, at Pilani, Rajasthan; Dir. of various Industries, Mg. Dir., Birla Brothers Pvt. Ltd.; Pres., F.I.C.C. & I., 1967–68; Founder of a number of Educl. Instts. *Address : Residence :* Birla Niket, Raja Santosh Road, Calcutta 700027; *Office :* 9/1, R. N. Mukerjee Rd., Calcutta 700001.

BIRLA, Sudarshan Kumar, Industrialist. *b.* 1934. Dir., Birla Jute Mfg. Co. Ltd., Birla Bombay Pvt. Ltd., Universal Electrics Ltd., Century Spg. & Mfg. Co. Ltd., etc.; Mem., Fedn. of Indian Chambers of Commerce & Ind. AIOE and Intl. Chamber; V. Pres. Indian Chamber of Commerce; delegate to the CAFEA, 1966 and UNCTAD '72. *Address :* Birla Bldg., 9/1, R. N. Mukherjee Rd., Calcutta 700001.

BLAZEVIC, H. E. Mr. Andjelko, Ambassador of Socialist Federal Republic of Yugoslavia to India. *b.* July 21, 1921. Joined Foreign Service, 1947; First Secy., Yugoslav Permanent Mission to U.N., 1949–52; First Secy., Rome, 1955–58; Counsellor, Rio de Janeiro, 1962–65; Minister-Counsellor, New Delhi, 1968–72; Foreign Policy Adviser to the President, 1974. *Address :* 3/50G, Niti Mrg., Chanakyapuri, New Delhi 110021.

BOSE, Sunil Kumar, Scholar-musician, retd. Exec. Dir., Bharatiya Kala Kendra & Dir., A.I.R., New Delhi; Mem.: Univ. Grants Commn., Music Review Cttee.; Radio and gramophone artist since 1928; gave many performances and delivered lectures on music in India and abroad; long-playing vocal classical music record released in U.S.A. (1978); Examiner (Ph.D.) Music, Delhi Univ. *Address :* D-3/D, Munirka, New Delhi 110057.

BOSU, Jyotirmoy, M.P. *b.* Dec. 18, 1920 at Calcutta. Worked as Tea Taster, Assessor & Valuer in British firms in Europe & India; held a Commission during Second World War; served with Br. Army (Reserve) in the U.K.; joined C.P.I., '55; Ex-Pres., Indo-Soviet Friendship Socy.; Pres. & Exec. Mem. of a number of trade unions; M.P., since '67; Chief Whip, C.P.I.(M) in Lok Sabha; Chmn., Public Accts. Cttee., 1973–74, 1974–75: Chmn.: Cttee. on Public Undertakings, 1977–78; Mem.; Govg. Body, Indian Council for Agricultural Res.; travelled extensively abroad. Imprisoned during emergency for 19 months, 1975–77; also undergone imprisonment earlier. *Address :* 19, Ballygunge Stn. Rd., Calcutta 700019; 15, Talkatora Rd., New Delhi 110001.

BRAGANCA, Beatriz M., M.Sc., Ph.D. (McGill Univ., Canada), Sandoz Award (1975); Scientist; Research Dir. & Head, Biochemistry Divn., Cancer Research Instt., Bombay. *b.* Nov. 6, 1918. Post-graduate and Post-doctorate research in Columbia Univ., Harvard Univ., Instt. of Cytophysiology, Copenhagen; Instt. de Biologie et Physico Chimique, Sorbonne, Paris and National Instt. for Medical Research, Lond., etc.; conducted research on biochemical investigations on human leprosy organisms; study of enzymes involved in folic acid metabolism in relation to cancer and biologically active constituents of cobra venom. *Address :* Res. Dir. & Head, Biochemistry Divn., Cancer Research Instt., Parel, Bombay 400012.

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DEO, Madhav Gajanan, M.B.B.S., M.D., Ph.D., F.N.A., F.A.Sc., F.A.M.S., Shakuntala Amir Chand I.C.M.R. (1966), Khanolkar Prize, Indian Assn. of logists (1966); Amrit Mody Award (1972); B. C. Lecturer, INSA (1978); Fellow: Indian Sci. (1974); Indian Academy of Sciences (1976); (Biology) National Aca. of Medical Sciences (Scientist; Professor of Pathology, All India I Medical Sciences, New Delhi (1974–78); Research Cancer Res. Inst., Bombay since 1978. *b.* Apr. 6, Assoc. Prof. of A.I.I.M.S., 1968-74; invited speaker at several national and international symposia on biology of nutrition. *Address :* 59, Kenilworth, 53, Pedder Rd., Bombay 400026.

DESAI, Mr. Justice Dhirajlal Ambelal, B.A. (Bom.), LL.B. (Bom.), Judge, Supreme Court of India. *b.* May 9, 1920. Hony. Prof. of Law, Sarvajanik Law Coll., Surat, 1949–60; Dist. & Sessions Judge, Vadodara, Bhavnagar & Nadiad, 1960; Judge, Gujarat High Court, Feb. 1968; Vice-Chmn., Legal Aid Cttee. & Chmn., High Court Legal Aid Cttee., 1973–77; Ex-Chmn., Labour Law Enquiry Cttee., Gujarat; Mem., Judicial Reforms Cttee. *Address :* Supreme Court of India, Tilak Mrg., New Delhi 110001.

DESAI, Morarji Ranchhodji, B.A., M.P. (Lok Sabha). Prime Minister of India since Mar. 24, 1977. *b.* Feb. 29, 1896. Entered Provincial Civil Service of the Govt. of Bombay, 1918; resigned to join the C.D. Movement, 1930; Secy., Gujarat P.C.C., 1931-37 and 1939-46; Min. for Revenue, Co-op., Agr. and Forests, Bombay, 1937-39; Min. for Home and Revenue, Bombay, 1946-52; Chief Min. of Bombay, 1952-56; Min. for Commerce and Industry, Govt. of India, 1956-58; Treasurer: A.I.C.C., 1950-58; Hon. Fellow, Coll. of Physicians and Surgeons, Bombay, 1956; Hon. Doctor of Laws, Karnatak Univ., 1957; Union Fin. Min., 1958-63; resigned the Ministership to do party work, Aug. 1963; Chmn., Adm. Reforms Commn., Govt. of India, 1966-67; Chancellor, Gujarat Vidyapeeth, Ahmedabad; Chmn.: Navjivan Trust; All-India Prohibition Council; Adv. Board of Hindustani Prachar Sabha; The Collected Works of Mahatma Gandhi; Trustee: Gandhi Smarak Nidhi; Gandhi Peace Foundation, Kasturba Trust; elected to the Lok Sabha from Surat, 1967 and again in 1971. Dy. Prime Minister & Min. for Finance, Govt. of India, 1967-69; imprisoned during the emergency, June 1975–Jan. 1977; elected to Lok Sabha from Surat, 1977; sworn in as Prime Minister, March 24, 1977; concurrently in-charge of Department of Atomic Energy, Space and Electronics. *Address :* 1, Safdarjang Rd., New Delhi 110001.

DESHMUKH, Chintaman Dwarkanath, B.A. (Cantab.), Bar-at-Law; Padma Vibhushan (1975). Chmn., Adm. Staff Coll., Hyderabad, Jan. 1960-73; Pres.: India Intnl. Centre since March 1959; Instt. of Economic Growth, Delhi 1965-73; Council for Social Devpt. since 1970. *b.* Jan. 14, 1896. Entered the I.C.S., Nov. 1919; Dy. Governor, Reserve Bank, 1941-43; Governor, 1943-49; Governor for India on I.M.F. & I.B.R.D., 1946-56; Mem., Plng. Commn., 1950-56; Chmn., I.M.F. & I.B.R.D., Sept. 1950; M.P. and Union Min. of Fin., 1950-56; Chmn.: Univ. Grants Commn., 1956-60; Vice-Chancellor, Delhi Univ., 1962-67; Chmn.: National Book Trust, 1957-Sept. 1960; Ind. National Cttee. World Univ. Service, 1962-72; Central Sanskrit Board, 1968-69. Vice-Chmn., United Nations Instt. for Training & Research, 1966-71. *Address :* 2-2-18/50, C.T.I., Hyderabad 500768.

DESHPANDE, M. N., B.A. (Hons.), Postgraduate (Research), Dir.-Genl., Archaeological Survey of India and Ex-officio Jt. Secy., since June 8, 1972. *b.* Nov. 11, 1920. Asstt. Supdt., Archaeological Survey of India, 1946; Supdt., 1948; Dy. Dir.-Genl., 1959; Jt. Dir.-Genl., 1968; initiated conservation projects; explored & excavated many ancient sites; participated in the Intnl. Congress on Classical Archaeology, Paris, 1963; presided over Indian History Congress, 1963. *Address :* Archaeological Survey of India, Janpath, New Delhi 110011.

DESHPANDE, Purushottam Laxman, M.A., LL.B., Sangeet Natak Akademi Award (1967), writer, actor & producer of plays in Marathi and a distinguished speaker. *b.* Nov. 8, 1919. Wrote scripts, acted & directed music in Marathi films; was the first Chief Producer, A.I.R. Television, Delhi; was trained in the B.B.C.; did one-man shows on the Marathi stage namely *Batatyachi Chawl*, etc.; estd. Pu. La. Deshpande Foundation, to promote cultural & national activities; *Vyakti Ani Valli*, won the Sahitya Akademi award, 1966. *Address :* 5, Ajmal Rd., Vile Parle (East), Bombay 400057.

DEVARAJULU, G. K., Industrialist. Chmn.: Lakshmi Machine Works Ltd., Lakshmi Mills Co. Ltd., Coimbatore Cotton Mills Ltd., Coimbatore; Ex-Chmn.: Binny Ltd., Madras; Devpt. Council for Textile Machinery Industry, N. Delhi, etc.; Mg. Dir.: South-India Viscose Ltd., Coimbatore; Ex-Chmn.: Indian Cotton Mills Fdn., Bombay (1966–67); All-India Organisation of Employers, N. Delhi (1970–72); Assocn. of Man-made Fibres, Bombay & Devpt. Council for Man-made Fibres, etc.; Dir.: Baroda Rayon Corpn., Ltd., Bombay; Bhadrachalam Paperboards Ltd., Secunderabad, Indian Dyestuff Industries Ltd., Bombay; Volrho Ltd., Bombay, etc.; Mg. Trustee: G. Kuppuswamy Naidu Charity Trust for Educ. and Medical Relief, Coimbatore; is Hony. Consul of Italy at Cochin and has been honoured with the title of 'Cavaliere' by Italian Govt.; Recipient of gold medal by Asscn. of Mfrs. of Textile Machinery and Accessories, Bombay; Mem., Textile Assoc. of India, Bombay. *Address :* Shell House, Avanashi Rd., Coimbatore 641037.

DEVI LAL, Chief Minister, Haryana State, since June 21, 1977. *b.* 1914. Participated in Quit India Movement and suffered imprisonment; M.L.A., Punjab, 1945; Pres., Punjab P.C.C., 1956; Chief Parly. Secy., 1956; elected to Leg. Assembly, 1959; resigned from the Congress and organised Haryana Lok Samiti, 1962; Chmn., Khadi Board, Haryana, 1968-1971; started Kisan Movement in Punjab and Haryana and courted arrest, 1973; elected to Haryana Assembly, 1974; detained under MISA, 1975-Jan. 1977. *Address* : Chandigarh.

DHARIA, Mohan, Min. for Commerce, Civil Supplies & Co-opn., Govt. of India, since Mar. 1977. *b.* Feb. 14, 1925. Enrolled as Advocate, Bombay High Court; was Secy., Poona Bar Assocn.; took active part in freedom struggle; was connected with several trade unions and similar activities; Mem., P.S.P., 1948–60; resigned and joined Congress, 1961; Gen. Secy., M.P.C.C., 1962; Mem., Rajya Sabha, 1964–71; elected to Lok Sabha, 1971 and became Min. of State for Plng.; later Works & Housing; elected to Lok Sabha as a Janata Party nominee from Pune, 1977. *Address :* Udyog Bhavan, New Delhi 110011.

DHAWAN, Dr. Satish, B.A., M.A. (Eng. Litt.), B.Sc. (Engg.), M.S., Ae.E., Ph.D., D.Sc. (Honoris Causa), Roorkee, 1972, Cranfield Instt. of Tech. (U.K.), 1975, LL.D. (Honoris Causa), Bombay, 1976, F.A.Sc., M.Ae.S.I., Foreign Hon. Mem. of the American Acad. of Arts & Scs., Foreign Associate, National Academy of Engg., U.S.A.; Director, Indian Instt. of Science, Bangalore, since 1963; Secy. to the Govt. of India, Deptt. of Space; Chmn.: Space Commission, since June 1972; Indian Space Res. Orgn., since Sept. 1972. *b.* Sept. 25, 1920. Sr. Scientific Officer, Deptt. of Aeronautics, Ind. Instt. of Science, 1951; Asstt. Prof. & Prof. and Head of Deptt. of Aeronautics, 1953-62; One-man Cttee. for the Evaluation of AVRO HS-748 aircraft, 1973-75; Exec. Delegate for India, Commonwealth Advisory Aeronautical Research Council, 1964-71; Mem., Board of Directors, Hindustan Aeronautics Ltd., 1964-72; U.G.C., 1966-71; Scientific Advisory Cttee. to the Cabinet, 1965-68. *Address :* Indian Instt. of Science, Bangalore 560012.

DINESH MOHAN, Prof., C.E. (Hons.) Roorkee (1943), Post-graduate Studies, U.K. (1944-46), Padma Shri (1974), Dir., Central Bldg. Research Instt., Roorkee, since Oct. 1961. *b.* July 14, 1922. Associated with Central Bldg. Research Instt., since inception in 1948 ; specialised in Soil Mechanics & Foundation Engg. ; V. Pres. (Asia) : Int. Socy. of Soil. Mech. and Found. Engg. *Address :* CBRI, Roorkee 247667.

DIVAN, Bipinchandra Jivanlal, M.A., LL.B., Advocate (O.S.), Chief Justice, Gujarat High Court, since 28th Aug. 1977. *b.* Aug. 20, 1919. Judge & Principal Judge, City Civil & Sessions Court, Bombay, Nov. 1954–May 1961 ; Judge, Gujarat High Court, Apr. 1962–July 1973 ; Ch. Justice, Guj. High Court, 1973–76 ; Ch. Justice ; Andhra Pradesh High Court, July 1976–Aug. 1977. *Address :* Gujarat High Court, Ahmedabad 380009.

DOSHI, Maganlal Harilal, Dir. : Silk & Art Silk Mills' Assn. Ltd., since Oct. 1973 ; Art Silk Co-operative Ltd. since 1976 ; Nehal Textile Processors Pvt. Ltd. ; Vaishali Bleaching Co. Ltd., Manufacturer & Exporter of Rayon/Synthetic Fabrics, Steel Forging, Antomobile Parts, etc. *b.* Nov. 8, 1925. Joined Sharda Dyeing & Printing Works, Bombay, 1949 ; Partner : Neeru Silk Mills, Mansukh Dyg. and Ptg. Mills, B. Nagindas & Co., Jaypee Dyg. House, Shree Neminath Enterprises ; Dir., Echjay Electronics P. Ltd., Bombay, Echjay Industries P. Ltd. ; Mem. : Mg. Cttee., Fedn. of Indian Art Silk Wvg. Industry ; Cttee. of Admn. of Silk & Rayon Textile Export Promotion Council ; Dvpt. Council for Man-made Textiles ; Council of SASMIRA & Rayex (India) Ltd. Trustee : Mumbai Pradesh Arya Vidya Sabha ; Harilal Jaychand Doshi Vishwa Vatsalaya Trust. *Address :* Echjay Overseas Trades, 83, Bajaj Bhavan, Nariman Pt., Bombay 400021.

DUTT, Rabindra Chandra, B.A. (Econ.) (Hons.) (Calcutta), Econ. Tripos (Cantab.), I.C.S. (Retd.). Hon. Chief Edit., Manpower Journal ; Chairman : Bokiyu Tanneries Ltd., Madras, Reyrolle Burn Ltd., Calcutta and Management Structure Systems, N. Delhi ; Mem. : Wage Boards for Working Journalists and Non-Journalist Newspaper Employees ; Hon. Treasurer, India Intnl. Centre, New Delhi. *b.* Nov. 5, 1912. Passed I.C.S., 1936. *Address :* 3, Kautilya Marg, Chanakyapuri, New Delhi 110021.

DWARKA, His Holiness the Jagadguru Shankaracharya Swami Shri Abhinava Sachchidananda Tirthji Maharaj of Sharada Peeth, of, Spiritual Head of W. India ; Scholar & Linguist. *b.* Sept. 25, 1919. Took Holy orders, 1934 ; installed at Dwarka on the Holy seat of Shri Shankaracharya of W. India, June 20, 1945 ; Pres., All India Dharma Sangh Cfce. ; recognised by the Govt. as the Shankaracharya of Dwarka and a Primate of Hinduism ; Founder & Pres., Shri Sharada Peeth Vidya Sabha ; inaugurated Intnl. Yoga Conventions, 1967 & 1968 ; installed present Shankaracharyas on Govardhanpeeth (Puri) and Jyotirpeeth (Badrikedar) ; Patron, Vishva Hindu Parishad etc. *Address :* Dwarka 361335.

ESCALANTE, H. E. Mr. Fernando Maria Fernandez, Amb. of Argentina to India. *b.* 1920. Joined Min. of Foreign Relations, 1937 ; served in Argentine Missions in Uruguay, Belgium, Spain and Colombia, 1945–54 ; Counsellor, Permanent Mission to U.N., 1955 ; Gen. Manager, Ford Motor Co., Argentina, 1963–68 ; First Vice-Pres., Indl. Bank and Dir., National Devpt. Bank, 1968–73 ; Deptt. of Intnl. Orgn., Foreign Office, 1974–75, Pres. : Argentine delegation to Colombo Non-Aligned Summit Conference (August 1976). Dir. & Prof. of Post-graduate Courses on business administration of Argentine Univs. of Buenos Aires, Mar del Plata & Bahia B (1963–75). *Address :* Embassy of Argentina, 3/11, Sh ketan, New Delhi 110021.

FERNANDES, George, Minister for Industry, G of India ; Chairman, Socialist Party ; President, All I Railwaymen's Federation. *b.* June 3, 1930. Joined the Socialist Party, 1949 ; organised dock, transport, municipal, hotel and other workers since 1951 ; Founder-Mem. and Mem., National Cttee., Socialist Party, since [illegible] Gen. Secy., S.S.P., 1969–71 ; Treasurer, Hind Mazdo Sabha, 1958 ; Gen. Secy., Hind Mazdoor Panchayat, Socialist TUC since 1958 ; Founder-Chmn.: Bombay Labour Co-op. Bank, 1968 ; Mem. : B.M.C., 1961 [illegible] M.P., 1967–70 ; played key role for the merger of S.S.P., P.S.P., & I.S.P., 1971. Joined the Union Cabinet on [illegible] March 1977. *Address :* S-114, Panchshila Park, New D 110017 ; Tejpal Bldg., Kemp's Corner, Bombay 40000

FERNANDEZ, H. E. Javier Illanes, M.A., Ambassador of Chile to India. *b.* 1930. Joined Foreign Service, 1949 ; Charge d'Affaires, Brussels, 1957–59 ; Buenos Aires, 1959–61 ; Chief of Cabinet of the Foreign Minister, 1961 ; Minister/Counsellor and Charge d'Affaires, Chilean Mission to U.N., 1964 ; thereafter Minister Counsellor in Buenos Aires till 1975 ; Dir.-Gen., Chilean Foreign Office. *Address :* Embassy of Chile, 1/13, Shantiniketan, New Delhi 110021.

FINNMARK, H. E. Tor Lennart, Ambassador of Sweden to India. *b.* 1917. Entered Foreign Service, 1940 ; Personal Asstt. to D. Hammarskjold, 1956–58 ; Counsellor, Paris, 1959 ; Minister, Moscow, 1961 ; Amb. to : Pakistan, 1964 ; Yugoslavia, 1969. *Address:* Royal Swedish Embassy, Nyaya Mrg., Chanakyapuri, New Delhi 110021.

GADGIL, Gangadhar, M.A., Marathi Writer ; Economic Advisor, Premier Construction Co. Ltd., Bombay ; Mem.: Mg. Cttee., Maharashtra Chamber of Comm.; Eco Sub-Cmttee., Bombay Chamber of Comm., Plng. & Eco. Affairs Sub-Cttee., Indian Merchants' Chamber Advy. Bd., Grindlays Bank Ltd. *b.* Aug. 25, 192 Has written short stories, novels, literary criticism, one-act plays, travelogues etc. (Marathi & English) ; awarded first prize in the Marathi short story competition held under the auspices of the *New York Herald T* awarded prizes for his books *Talavatalen Chandane, O Unha* and *Sata Samudra Palikade* by the Bombay Govt., 1956, 1958, 1960 ; recipient of Rockefeller Foundation Fellowship in 1957 ; Ex-Vice-Pres., Marathi Sahitya Mahamandal; Hon. Professor of Marathi, Univ. of Bom *Address :* 4, 'Abhang', Sahitya Sahawas, Bandra (Bombay 400051.

GANDHI, Smt. Indira, Bharat Ratna (19 Pres. : Indian National Congress(I) since Jan. 1, 1978. Prime Minister of India, Jan. 1966–Mar. 1977 ; was also in charge of Atomic Energy, Space, Home ; held charge of Extnl. Affairs, Finance & Infn. and Broadcasting for a while ; Ex-Chairman, Plng. Commn. *b.* N 19, 1917. Became a member of the Congress, 1938 ; Mem., Wkg. Cttee., A.I.C.C., 1955 ; Pres., Women's Deptt., A.I.C.C. ; Mem., Central Election Cttee. and Central Parly. Board of the A.I.C.C. ; Pres. : Bal Bhavan Board ; Pres. and Founder : Bal Sahyog, New Delhi ; Kamala Nehru Vidyalaya, Allahabad ; Vice-Pres., Intnl. Council for Child Welfare ; elected Pres., Indian National Cong., Feb. 1959 ; Min. of Information and Broadcasting, Govt. of India, June 1964–Jan. 24, 1966 ; apptd. Mem., Emergency Cttee. of the Central Cabinet and National D Council, July 1964 ; elected to the Rajya Sabha unopposed from U.P., Aug. 21, 1964 ; Chmn., Sangeet Natak Akademi, since Dec. 14, 1965 ; received : Mother's Award, U.S.A.

1953 ; Yale Univ. Howland Memorial Prize, 1960 ; awarded the " Isabella D'este " Prize for outstanding ability by the Italian Govt., Nov. 1965 ; Mexican Academy Award for Liberation of Bangla Desh, 1972 ; 2nd Annual Medal F.A.O., 1973 ; Sahitya Vachaspati (Hindi) by Nagari Pracharini Sabha, 1976 ; elected leader, Cong. Party, Jan. 19, 1966 ; Chancellor : Visva Bharati Univ., J. N. Univ., N. E. Hill Univ. ; elected to the Lok Sabha from Rae Bareli, Feb. 1967 ; again elected Leader, Cong. Parly. Party, March 12, 1967 and after Mid-term poll in March 1971. Attended the Commonwealth Prime Ministers' Cfee., London, Jan. 1969 ; U.N. Silver Jubilee Celebrations, Oct. 1970. *Address :* 12, Willingdon Crescent, New Delhi 110001.

GANESAN, Ramaswamy (Gemini Ganesh), Padma Shri , Film Artiste director, writer and producer ; Mg. Dir., Vijay Spg. Mills, Vijayawada. *b.* Nov. 17, 1925. Started as Prodn. Exec., Gemini Studios, Madras, and became a top All India Star ; has acted in several Tamil, Telugu, Malayalam, Kannada and Hindi films ; bagged the best actor's Filmfare Award in Tamil prodn., 1974 ; First Indian film Star to lead a cultural troupe to perform in South Africa in 1973 ; has visited foreign countries for film festivals, etc. *Address :* 6, Nungambakkam High Rd., Madras 600034.

GANESAN, Sivaji, a leading Cine Artiste. *b.* Oct. 1, 1928. Joined a Drama Troupe at the age of six ; Best Actor Award at the Afro-Asian Film Festival, Cairo, 1960, for the picture, ' Veera Pandiya Kattabomman ' ; winner of Best Actor Award from Tamil Nadu Govt. and many Film Journals ; has acted in 198 films so far. *Address :* 16, Boag Rd., T. Nagar, Madras 600017.

GANGOLY, Ashok Kumar, B.Sc., (Nagpur). Film Artist. *b.* Oct. 13, 1911. Asstt. Cameraman and Laboratory-in-Charge, 1935 ; appeared as Hero for first time in *Jeevan Naiya.* Has starred in more than 200 films, prominent of which are : *Achhut Kanya, Bandhan, Jhoola, Naya Sansar, Kismat, Sangram, Parineeta Afsana, Bandish, Ek Hi Rasta, Bhai Bhai, Chalti Ka Nam Gadhi, Kanoon, Yeh Rastey Hain Pyarke, Gumrah, Karigar, Aaj Aur Kal, Mahal, Ashirvad, Victoria* 203, *Chhoti si Baat, Khatta Meetha,* etc. Also produced films : *Samaj, Ragini ;* Received Sangeet Natak Academy Award 1959 ; Padma Shri 1962 ; National Award for Acting 1968. *Address :* 47, Union Park, Chembur, Bombay 400071.

GARWARE, Bhalchandra Digamber, Padma Bhushan, S.E.M., Industrialist, ex-Sheriff of Bombay. *b.* Dec. 21, 1903. Founded Garware Group of Industries, was Pres.: Maharashtra Ch. of Commerce. All India Plastics Mfrs. Organisation : Chmn. : Maharashtra Economic Dev. Council, 1956-64 and its Pres., 1965 ; Maharashtra State Fin. Corpn. ; Past Vice-Chmn., State Bank of India ; was Dir. : Central Board of State Bank of India ; Sutlej Cotton Mills Ltd. etc. ; was Pres., Assocn. of Synthetic Fibre Industry ; Trustee : Bldg. Cttee. of Maharashtra Ch. of Commerce ; Founder of several Charity Trusts in the field of education, health, sports and public activities ; widely travelled. *Address :* Kapur Mahal, Netaji Subhas Rd., Bombay 400020.

GEORGE, Manapurathu Verghese, B.Sc. (Madras), M.Sc. Ph.D. (Agra), F.A.Sc. (1974); Bhatnagar Prize (1973), F.N.A. (1975) ; Scientist. *b.* Oct. 3, 1928. Lecturer, St. John's Coll., Agra, 1954–55 ; Assoc. Prof. of Chemistry. I.I.T., Kanpur, 1963–65 ; Prof. of Chemistry, 1965–72; Head, Deptt. of Chemistry, 1967–70 ; Prof., since 1972 ; conducted research in organic reaction mechanisms, photochemistry, organometallic chemistry and heterocyclic chemistry. *Address :* Prof. of Chemistry, I.I.T., Kanpur 208016.

GHATAGE, Dr. Vishnu Madhav, M.Sc., D.Phil., MIE, FASC, FNI, MAESI, C.E. ; Padma Shri ; Scientist ; Mg. Director, Product Designers Private Ltd., Bangalore. *b.* Oct. 24, 1908. Prof. of Aeronautical Engg., Indian Instt. of Sc., 1942–47 ; Chief Designer, HAL ; indigenously designed, developed and produced (*i*) HT-2 — Trainer Aircraft, (*ii*) Pushpak — Light Trainer Aircraft, (*iii*) Krishak and (*iv*) "Kiran" ; also designed and developed a Turbo jet Engine (HJE-2500) for the Jet Trainer. Gen. Manager, HAL, 1967–69. *Address : Office & Res.:* 7, Bore Bank Rd., Bangalore 560046.

GHOSH, Smt. Gouri Rani, M.Sc. (Patna), 1950 ; Ph.D. (Univ. of Illinois), 1954 ; Fulbright & Smith Mundt Scholar and Fellow, Univ. of Illinois, 1952–54 ; Scientist; Prof. & Head of Science and Prof. of P. G. Life Sciences-Ed. (All India Course), Regnl. Coll. of Edn., Bhubaneswar. *b.* June 6, 1924. Lecturer in Botany, Ravenshaw Coll., Cuttack, 1951–64 ; Reader in Sci. (Botany), Regnl. Coll of Edn., Bhubaneswar, 1964–72 ; Prof. & Head of P. G. Deptt. of Botany, Ravenshaw Coll., 1972–74 ; is conducting research on Soil fungi from Orissa, Gymnoascaceae from Orissa, Keratinophilic fungi & Dermatophytes and Physiology of Gymnoascaceae. *Address :* Regnl. Coll. of Edn., Bhubaneswar 751001.

GHOSH, Tushar Kanti, Editor and Mg. Dir., *Amrita Bazar Patrika,* Calcutta ; Mg. Dir., *Jugantar. b.* Sept. 21, 1898. Founded : *Jugantar* (Calcutta), Bengali daily and now its editor ; *Allahabad Patrika,* English daily and *Amrita,* a Bengali Weekly at Calcutta. Pres.: A.I.N.E.C., 1946–47 ; I.E.N.S., 1948–49 ; Ex-Chmn., P.T.I. ; U.N.I. ; Chmn., A.B.C. ; Trustee, Press Instt. of India ; Vice-Pres. and Mem. : Exec. Cttee., Intnl. Press Instt. ; Hony. Life Mem. & Chmn., Indian Sect., Commonwealth Press Union. *Address :* Editor, *Amrita Bazar Patrika,* Calcutta ; Chief Editor, *Northern India Patrika,* Allahabad 211001.

GILL, Col. Partap Singh, Lt.-Governor of Goa, Daman & Diu and Admr. of Dadra and Nagar Haveli, since Nov. 16, 1977. *b.* Jan. 20, 1916. Joined the Army, 1935 ; war service, 1939–45, 1962 and 1965 ; was Chmn., Intnl. Control Commn. team in Vietnam ; retired as Lt.-Col., 1966. *Address :* Cabo Raj Niwas, Panaji 403004 (Goa).

GIRI, V. V., Barrister-at-Law, Bharat Ratna (1975). Former President of India. *b.* Aug. 10, 1894. Trade Union Leader ; was General Secy. and Pres. of the All-India Railwaymen's Fedn. ; twice Pres., A.I.T.U.C. ; Indian Workers' Delegate to the Intnl. Labour Cfce., Geneva, 1927 ; Workers' Rep. at the Second R.T.C., London, 1931 ; Mem., Central Leg. Assembly, 1934–37 ; Min. for Labour, Industries and Co-op., Madras, 1937–39, 1946–47, Indian High Commr. in Ceylon, 1947–51, Union Min. for Labour, May 1952–Sept. 1954 ; M.P., Lok Sabha, 1952–57 ; Elected Pres., Indian Cfce. of Social Work, 1958 ; Governor of U.P., 1957–60 ; Founder Pres., Indian Socy. of Labour Economics ; Governor of Kerala, 1960–65 ; Governor of Karnataka, 1965–67 ; Vice-Pres. of India, May 13, 1967 to May 3, 1969 ; Acting Pres. of India, May–July 1969 ; President of India, Aug. 24, 1969 to Aug. 23, 1974. State visit : to Ceylon, Jan. 8–12, 1970 ; to Switzerland, Finland and Poland, June 8–20, 1970 ; to U.S.S.R., Bulgaria and Hungary, Sept. 21–Oct. 7, 1970 ; to Singapore, Sept. 14–17, 1971 ; to Thailand, March 27–30, 1972 ; to Yugoslavia and Afghanistan, July 4–14, 1972 ; to Ethiopia, Tanzania and Zambia, Sept. 24–Oct. 6, 1972 ; to Malaysia, March 5–7, 1973 ; to Rumania and Czechoslovakia, Oct. 3–10, 1973. *Address :* Malati, 4, Giri Road, T. Nagar, Madras 600017.

GODREJ, Sohrab Pirojsha, B.Sc., Industrialist ; Chmn., Godrej Cos. in India. *b.* June 3, 1912. Dir., Godrej

(Malaysia) (Singapore); Ex-Chairman and Member, Indian National Cttee., Intnl. Chamber of Commerce; Chmn., Indian Society of Advertisers; Ex-Pres.: Indian Merchants Chamber; Rotary Club of Bombay, Alliance Francaise de Bombay, Council for Fair Business Practices; Vice-Pres., Indian Council of World Affairs; Mem.: Governing Body, Indo-French Chamber of Commerce and Industry; Governing Body, Indian Instt. of Foreign Trade; Tourist Devpt. Council; Family Plng. Assn. of India; Bombay University Senate, The 1001: A Nature Trust; Pres.: Nat. Council of Applied Eco. Research, Belgo-Indian Chamber of Commerce, Indo-French Technical Assocn., Indo-Japanese Assocn., Indo-Iran Cultural Soc.; Trustee, World Wildlife Fund — India. *Address :* 40-D, B. G. Kher Marg., Bombay 400006.

GOENKA, Keshav Prasad, Industrialist. *b.* 1912· Sheriff of Calcutta (1950–51); Pres., F.I.C.C.I. (1964–65); Cttee. of the All-India Orgn. of Ind. Employers; Cttee· of the Indian Chamber of Commerce (1948–49), (1956–57)› Ex-Commr. for the Port of Calcutta; Chmn.: Duncan Bros. & Co., Ltd.; Oriental Carbons Ltd., Philips Carbon Black Ltd.; Dir., Reserve Bank of India (1948–49). *Address :* 31, N. Subhas Rd., Calcutta 700027; *Residence :* 'Goenka Niwas,' 19, Belvedere Rd., Calcutta 700027.

GOHEEN, H.E. Dr. Robert Francis, Ph.D., American Amb. to India. *b.* 1919. Instructor of Classics, Princeton, 1948–50; Asstt. Prof., 1950–57; Pres., 1957–72; Dir., National Woodrow Wilson Fellowship Programme, 1953–56; Former Mem.: Rockefeller Foundn., American Philological Socy., American Archaeological Socy., etc.; Regent, Smithsonian Instt., 1972–77. *Address:* American Embassy, Shantipath, Chanakyapuri, New Delhi 110021.

GOPAL, Dr. Sarvepalli, M.A., B.L. (Madras), M.A. (Oxon.), D. Phil. (Oxon.), D. Litt. (Oxon.), Hon. D. Litt. (Andhra), Sahitya Akademy Award, 1976; Fellow of St. Anthony's Coll. Oxford; Hon. Historical Adv., Ext. Affairs Min.; Prof. of Contemporary History, Jawaharlal Nehru University; Hony. Prof.: Shri Venkateswara Univ.; Pres., Indian History Congress, 1978; Chmn., National Book Trust of India, 1973-76; Mem., UNESCO Executive Board; Gen. Editor, Selected Works of Jawaharlal Nehru. *b.* April 23, 1923. Lecturer and Reader in History, Andhra Univ., Waltair (1948-52); Asstt. Dir., National Archives of India (1952-54); Dir., Historical Dvn., Ext. Affairs Min., 1954-66; Reader, South Asian History, Oxford Univ., 1966-71. *Address :* 97, Edward Elliot Rd., Mylapore, Madras 600004.

GORAY, Narayan Ganesh, B.A., LL.B., India's High Commissioner to the United Kingdom since Oct., 1977. Chairman, Praja Socialist Party, 1965-68; Editor, *Janata — English Weekly. b.* June 15, 1907. Was Mem., National Exec. of the Congress Socialist Party, 1934; A.I.C.C.; Jt. Secy., Socialist Party, 1948; General Secy., P.S.P., 1953–54; elected to the Court of the Univ. of Poona from the Trade Unions Constituency, 1949–55; imprisoned many times for participating in freedom struggle (1930–46); led the first batch of Satyagrahis in Goa, May 1955; was sentenced to 10 years' imprisonment by the Portuguese Govt.; released, Feb. 1957; Critic, essayist, story writer and translator; M.P. from Poona (1957–62); Gen. Secy., P.S.P., 1963; Mayor of Poona, 1967–68; Mem., Rajya Sabha, 1970. *Address :* C/o Ministry of External Affairs, New Delhi 110011.

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KAKODKAR, Smt. Shashikala Gurudutt, B.A. (Hons.), M.A. (His.), Chief Minister, Goa, Daman & Diu, since Aug. 13, 1973. *b.* Jan. 7, 1935. Served as Dir., Goa Urban Coop. Bank, Panaji ; Pres. : Goa Cancer Soc. ; India Red Cross Soc. (Goa Br.), etc. ; was mem., Informal Consultative Adv. Cttee. to the Lt. Governor of Goa ; Chmn./Mem., Social Welfare Board ; Public Accts. Cttee., 1967-72 ; Mem., Rules Cttee. of the Leg. Assembly, 1967-72 ; elected to the Assembly Mar. 1972 ; Min. of State, Mar 1972-Aug. 1973. *Address :* Panaji 403001.

KALYANI, Dr. Neelkanth A., Industrialist. *b.* Aug. 20, 1928. Promoter and Mg. Dir., Bharat Forge Co. Ltd.; Chmn., Hindustan Gears Pvt. Ltd. ; Dir., Kirloskar Engg. Services Pvt. Ltd., Kirloskar Pneumatic Co. Ltd., etc. ; Dir. and Chmn., State Indl. & Investment Corpn. of Maharashtra Ltd., Maharashtra Electrosmelt Ltd., Indian Bank, etc. Ex-Chmn., State Apex Body of Co-optve. Banking Insttns. in Maharashtra ; Mem., State Bank of India (Local Bd.), A.I.M.O. ; Ex-Mem., M.S.E.B. ; former Dir., Rural Electrification Corpn. Ltd. ; was conferred Hony. Degree of Doctor of Sci. by the Karnataka Univ. in recognition of yeoman service to agri. & ind., Mar. 29, 1976. *Addres :* Bharat Forge Co. Ltd., Bundhwa, Pune 411036.

KAMALADEVI CHATTOPADHYAY, Smt., Politician and Social Worker. Chmn. : Sangeet Natak Akademi (Academy of Performing Arts), National School of Drama, Council for Performing Arts, Children's Books Trust and Dolls Museum; Ex-Chmn., All-India Handicrafts Board. *b.* 1903. Mem., AICC and Wkg. Cttee., Orgg. Secy., then Pres., All India Women's Cfce. ; Pres., Indian Co-op. Union ; Vice-Pres., World Crafts Council, India International Centre ; Founder, Indian National Theatre Centre of the Intnl. Theatre Instt. ; Fellow ; Indian Council for Cultural Relations ; Sangeet Natak Akademi, 1974; awards: Watumal, Magsaysay for Community Leadership, 1966, "Deshikottama" title awarded by Vishwa Bharati Univ. at Shantiniketan for outstanding achievements, 1970. Award for Dramatics by Maharashtra Natya Parishad, 1976. *Address :* 20, Canning Lane, New Delhi.

KAMANI, Rasik Ramji, Chmn. & Mg. Dir. : Kamani Metallic Oxides Pvt. Ltd., Indian Rubber Regenerating Co. Ltd. *b.* May 20, 1920. Started career with Kamani Enterprises, 1942; Chief Executive, Kamani Engg. Corpn. Ltd. ; Dy. Mg. Dir., Kamani Bros. Pvt. Ltd., Oct. 1961 ; Jt. Mg. Dir., Oct. 1967 ; Mg. Dir., July 1968 ; Ex-Chmn., Engg. Assn. of India (W. Regn.). *Address :* C/o Kamani

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KANAZAWA, H.E. Mr. Masao, B.A. (Law), Amb. of Japan to India, since July 26, 1978. *b*. Oct. 3, 1918. Joined Min. of Foreign Affairs, 1941 ; Dir., M.E. Dn., European and Oceanic Affairs Bureau, 1958 ; Counsellor, Embassy in U.S.A., 1962; Minister, Embassy in the Philippines and concurrently Consul-Genl. at Manila, 1966 ; Dy. Dir.-Genl., Research Deptt., Min. of Foreign Affairs, 1967 ; Asian Affairs Bureau, 1968 ; Dir.-Genl., Research Deptt., 1970 ; Amb. to Romania, 1972 ; Amb. & Dy. Permanent Rep. to U.N., 1974. *Address :* Embassy of Japan, Plot Nos. 4 & 5, Block 50-G, Shantipath, Chanakyapuri, New Delhi 110021.

KANKA, H.E. Mr. Pavol, Amb. of Czechoslovakia to India. *b*. Aug. 29, 1922. Assigned to Czechoslovak Embassy, New Delhi, 1954–56 ; Djakarta, 1956–57 ; Baghdad, 1958–59 ; New Delhi, 1959–63 ; Min. of Foreign Affairs, 1963–66 ; Amb. to Turkey, 1966–70 ; Head, Intnl. Economy Deptt. of the Min. of Foreign Affairs. *Address :* Embassy of Czechoslovakia, 50-M, Niti Mrg., Chanakyapuri, New Delhi 110021.

KANORIA, Shyam Sundar, Mg. Dir., Kanoria Chemicals & Ind. Ltd. *b*. Jan. 28, 1928. Dir. : U.P. State Ind. Dev. Corpn. Ltd., Pradeshiya Indl. and Inv. Corpn. of U.P. Ltd., Ratnakar Shipping Co. Ltd., India Jute Co. Ltd., Kamarhatty Co. Ltd., Rajasthan Spg. & Wvg. Mills Ltd., Hindustan Sanitaryware & Inds. Ltd., Indian Aluminium Cables Ltd., Amines & Plasticizers Ltd., etc. ; was Pres. : F.I.C.C. & I., N. Delhi ; Indian Chamber of Commerce, Calcutta ; Indian Sugar Mills Assn. ; Indian Council of Arbitration ; Anamika Kala Sangam ; Pres., Alkali Mfrs. Assen., Bombay ; Mem. : Devpt. Council for Inorganic Chemical Inds., Jute Manufacturers Devpt. Council, Board of Governors of Management Devpt. Institutes, New Delhi ; Local Advisory Cttee. (Calcutta), Indl. Fin. Corpn. of India Advisory Cttee., Faculty of Commerce, Banaras Hindu Univ. ; Customs Adv. Cttee., Calcutta ; Chmn. : Finance Cttee., Indian Red Cross Socy., W. Bengal ; Visited several countries as member and leader of indl. and trade delegations. *Address : Off.* 16A, Brabourne Rd., Calcutta 700001 ; *Resi.* 23-C, Ashutosh Chowdhury Ave., Calcutta 700019.

KAPOOR, Ranbir Raj, Producer, Dir., Actor and Editor. *b*. Dec. 14, 1924. Mem. : Jury on Intnl. Film Festivals, Berlin, Karlovy Vary, Moscow, 1966–69 ; Chmn. of the Jury, 4th Intnl. Film Festival, New Delhi, Dec. 1969 ; won the Grand Prix at the Intnl. Film Festival, Karlovy Vary, Czechoslovakia, for his film *Jagte Raho*, 1958. *Address :* Devnar Cottage, Devnar Farm, Trombay, Rd., Chembur, Bombay 400071.

KAPOOR, Shashi, Film Actor. *b*. Mar. 18, 1938. Worked with the Prithvi Theatres and Shakespearean Theatrical Co., 1955–60 ; joined films, 1960 ; first film "*Char Diwari*" ; has acted in five intnl. films. *Address :* 112, Atlas Apartments, Harkness Rd., Bombay 400006.

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KARANJIA, Burjor Khurshedji, B.A. (Hons.) (1939), I.C.S. (1943). *b*. Dec. 21, 1919. Editor, *Screen*, since Sept. 1978 ; Publicity Manager, Godrej (1953-61). Editor, *Filmfare* (1961-78) ; Chairman, Film Finance Corporation, 1969-76. *Address :* Quetta Terrace, Chowpatty, Bombay 400007.

KARANJIA, Russy K., B.A. (Hons.), Publisher & Journalist. Editor-in-Chief, *Blitz News Magazine*. *b*. [illegible] 15, 1912. Started *Blitz* in Feb. 1941 ; Editor & Dir., *Blitz* Publications. *Address :* Framroz Court, N. Subhas Rd., Bombay 400002.

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KAUSHAL, Jagan Nath, Ex-Governor of Bihar, June '76-Jan. '79. *b*. April 23, 1915. Dist. and Sessions Judge, Patiala, Oct. 1947 ; Sr. Advocate, Supreme Court, 1954 ; Punjab High Court, 1956 ; was Advocate-General, Punjab and Haryana ; elected to Rajya Sabha, [illegible] and remained a member for twelve years; Chmn., [illegible] Cttee. for two years ; Mem., Punjab Univ. Senate and Syndicate. *Address :* C/o Raj Bhawan, Patna.

KAUSHIK, Purushottam, B.A., LL.B., Min. for Tourism & Civil Aviation, Govt. of India, since Mar. [illegible], 1977. *b*. Sept. 24, 1930. Joined the Socialist Party, 1952 ; Mem., Exec. of the M.P. Unit and twice Secy. of the State Socialist Party ; Secy., Central Parl. Bd. ; Chmn., State Unit ; leader of the Socialist group in the assembly ; M.L.A., M.P., 1972 ; elected to Lok Sabha from Raipur constituency, Feb. 1977. *Address :* 1, Tughlak Rd., New Delhi.

KERKAR, Ajit Baburao, Hotelier and Industrialist. *b*. June 12, 1932. Mg. Dir. : The Indian Hotels Company Ltd. ; Dir. : Tata Industries Ltd., Oriental Hotels Ltd., Indian Resort Hotels Ltd., Banares Hotel Ltd., Maharashtra Tourism Dev. Corpn. Ltd., Taj Investment and Finance Co. Ltd., Taj Trade and Transport Co. Ltd., Mem.: Exec. Cttee. ; Fed. of Hotel & Restaurant Assocs. of India ; Pres. : Hotels & Restaurant Assocs. (W. India) ; [illegible] & Applied Nutrition, Bombay ; Cttee. Mem., Indian Merchants' Chamber ; Exec. Cttee. Mem., Pacific Area Travel Association (India) Chapter ; Mem. : Adv. Cttee. (Hotels), Industrial Fin. Corpn. of India, Tourism Devpt. [illegible] nal Tourist Cttee. (W. India); Mem.: Tourism Devpt. Council, Regl. Tourist Cttee. *Address :* Indian Hotels Company Limited, Taj Mahal Hotel, Apollo Bunder, Bombay 400039.

KHAITAN, Matadin, Businessman. *b.* May 1913. Life-member, Indian Red Cross Socy.; Mem.: Indian Sugarcane Devpt. Council, Govt. of India, New Delhi; Cttee. Mem.: Indian Sugar Mills Assn., Divisional Railway Users Consultative Council; Dir.: Matadin Khaitan & Co., (P) Ltd.; Vegetable Products Ltd.; Tulsipur Sugar Co. Ltd.; Trustee: Matadin Khaitan Charitable Trust; Gyan Bharati. *Address :* Khaitan House, 27, Vivekanand Rd., Calcutta 700007.

KHAN, Ustad Bismillah, Padma Shri (1961), Padma Bhushan (1968), Musician. *b.* March 21, 1916 at Dumraon, Shahabad Dist., Bihar. Gave his first public performance at the age of 14 at the All India Music Conference at Allahabad, 1930; Academy Award for Hindustani Instrumental Music, 1956; participated in the Edinburgh International and the Commonwealth Arts Festival, London & Liverpool, 1965; gave musical concerts at the Expo 1967 at Montreal, Canada, including the Lincoln Centre, New York, U.S.S.R., and all the countries of the Middle East, 1967; participated: Intnl. Music Council, Cannes, Jan. 1970; Expo 1970 in Japan; gave musical concerts in South America, West Indies, Gyuana, Venezuela, Surinam, Trinidad & Tobago, Mexico, Syria, Belgium, France etc. places during 1972, 1973 and 1974. Took part in International Music Council programme in West Berlin in March, 1977. *Address :* C. K. 46/62, Sarai Harhar, Banaras.

KHANNA, Mr. Justice Hans Raj, B.A., LL.B. Chmn.: Law Commission of India. *b.* July 3, 1912. Was Dist. & Sessions Judge, Ferozepore, Ambala and Delhi; Judge, Punjab High Court and Delhi High Court; Chief Justice, Delhi High Court, 1969–71; Judge, Supreme Court of India from Sept., 1971–March, 1977; Commission of Inquiry on police firing at Kalka Rly. Stn. in 1956 and into the charges against Orissa Ministers, 1968-69; tried Ram Krishna Dalmia & others as Spl. Judge. *Address :* S–368, Panchshila Park, New Delhi 110017.

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KHANNA, Kumud Chandra, LL.B., Resident Editor, *The Times of India*, Bombay, since April 5, 1978. *b.* Dec. 5, 1926. Joined *The Times of India*, 1946; Spl. Corspdt., New Delhi, 1947; Corspdt., Burma, 1953; Egypt, 1954; Spl. Corspdt., New Delhi, 1955–58; covered Middle East and Congo, 1958–63; London Corspdt., 1964–67; Sr. Asstt. Editor, 1968 to April 4, 1978. *Address :* Flat No. 1, Bakhtawar, Narayan Dabholkar Rd., Bombay 400066.

KHATAU, Dharamsey Mulraj, B.Sc. (Hons.), Industrialist & Businessman. *b.* Aug. 26, 1901. Chmn.: Khatau Mills, Cable Corpn. of India Ltd., Scindia Steam Nav. Co. Ltd., A.C.C., Colour-Chem Ltd., Siemens India Ltd.; Dir.: ACC — Vickers Babcock Ltd., Atul Products Ltd., etc.; has contributed greatly in the development of shipping, cement, engineering & cotton textile inds.; Pres., Bharatiya Vidya Bhavan, Bombay. *Address :* Laxmi Bldg., 6, Shoorji Vallabhdas Mrg., Bombay 400038.

KHOSLA, (Maj.-Gen.), Kishori Lal, B.Sc., B.E., Surveyor-General of India, since 1976. *b.* Dec. 1, 1923. Extra Asstt. Dir., Central Waterways, Irri. and Navigation Commn., New Delhi, 1946–48; commissioned as Lt., Corps of Engrs., 1948; Dy. Suptdg. Surveyor and later Suptdg. Surveyor, Survey of India, 1950–55; Dy. Dir. and Head, Geodetic & Research Branch, 1961; Dy. Surveyor-Gen., 1964; Dean, Indian Photo Interpretation Instt., 1975; Sr. Dir., Centre for Survey Trg. and Map Prodn., 1976; Corspdt. to Intnl. Assocn. of Geodesy; Fellow, Indian Geophysical Union; Instt. of Engrs. (India); Pres., Instt. of Surveyors; V.-Pres.: Intnl. Cartographic Assocn.; Mem., Instt. of Military Engrs.; American Socy. of Civil Engrs. *Address :* Surveyor General's Office, P. Box 37, Hathibarkala, Dehra Dun 248001.

KHOSLA, K. G., B.Sc., Industrialist; Mg. Dir., K. G. Khosla Compressors Ltd., New Delhi. *b.* Jan. 11, 1915. Dir. of several other public limited companies; also controls Khosla Foundry Pvt. Ltd. and Deepak Pneumatic Pvt. Ltd.; Hon. Gen. Secy., A.I.M.O., (Delhi), 1946-57; Vice-Pres., 1957–58; 1958–59; Sr. Vice-Pres., 1977–78; Pres., Engg. Assocn. of India, 1974–75; Assocn. of Indian Engg. Ind., 1975–76; travelled abroad as leader of comml. and indl. teams of EEPC and AIEI and on business. *Address :* 11, Prithvi Raj Rd., New Delhi 110011.

KIDWAI, Dr., Akhlaq-ur-Rahman, B.A. (Jamia), M.S. (Illinois), Ph.D. (Cornell), Chmn., Union Public Service Commn., Govt. of India, since Feb. 5, 1973. *b.* July 1, 1920. Fellow, Chemical Socy., London; Indian Chemical Socy., Prof. & Head, Chemistry Dept. and Dean, Faculty of Sce., Aligarh Univ., 1951–1967; Mem.: National Cttee. on Sce. & Tech., 1968–73; Central Adv. Bd. of Educ., and U.P.S.C., Sept. 1967–Feb. 1973. Chmn., Spl. Bd. for the Selection of Scientists (Scientists pool); Chmn., Assessment Bd. of Educational & Tech. Qualification, Mem., Exec. Council, Delhi Univ. *Address : Off. :* Dholpur House, Shahjahan Rd., New Delhi 110011; *Res. :* 7, Tughlaq Rd., New Delhi 110011.

KILACHAND, Ambalal, Vice Chairman, Polychem Ltd. *b.* July 23, 1912. Dir., Kilachand Devchand & Co. Pvt. Ltd., Kesar Sugar Works Ltd., Bombay Suburban Electric Supply Ltd., Aero Auto Ltd., Citric India Ltd., Eastern Bunkerers Ltd.; Rotary Dist. Governor 1976-77 of R.I. Dist. 314; former Trustee, B.P.T.; Mem.: Bombay Customs Adv. Cttee.; Pres., Indian Merchants' Chamber, 1953–54; Mem., Import Adv. Council, Govt. of India till 1956; Pres.: All India Plastic Manufrs. Assn., 1963; Rotary Club of Bombay, 1965–66. *Address : Office :* 7, Jamshedji Tata Rd., Churchgate Reclamation, Bombay 400020; *Res. :* 95, Laxmibai Jagmohandas Marg, Bombay 400006.

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Oilseeds & Oils Exchange Ltd., North Gujarat Edn. Socy.; Chmn.: Polychem Ltd.; Kilachand Devchand & Co. Pvt. Ltd.; Distillers Trading Corpn.; Dir.: Kesar Sugar Works, Ltd.; Synthetics & Chemicals Ltd., etc.; Ex-Trustee, Bombay Port Trust; Pres., Indian Merchants' Chamber, 1948–49; Mem.: Indian Oilseeds Devpt. Council; Export Promotion Council for Oilseeds, Oils, Oilcakes; Chmn.: Advy. Cttee., K. D. Polytechnic, Patan; Trustee: Kilachand Devchand Foundation; Kilachand Devchand Charity Trust; Kesarbai Charity Trust, Bombay Panjrapole, etc.; elected M.L.A., Bombay, 1952. *Address: Office:* 7, Jamshedji Tata Rd., Churchgate Reclamation, Bombay 400020; *Res.:* 95, Laxmibai Jagmohandas Marg, Bombay 400006.

KIRLOSKAR, Shantanu Laxman, B.Sc., "Sir Walter Puckey Prize" (1968), awarded 'Karma Virottama' by Engg. Assn. of India, Calcutta (1972), 'Vanijya Ratna' (1976), Karnataka Chamber of Comm., Bombay; National Institution of Quality Assurance award for 1976–77, Madras; Life Mem., Instt. of Engineers (India), Industrialist; Chmn. and Mg. Dir., Kirloskar Oil Engines Ltd., Pune. *b.* May 28, 1903. Pres., F.I.C.C. & I. 1965–66; First Pres., Indo-American Chamber of Commerce; Chmn.: Bd. of Dirs., Kirloskar Pneumatic Ltd., Pune; Kirloskar Consultants Ltd., Pune; Kirloskar Cummins Ltd., Pune; Kirloskar Bros. Ltd.; Chmn., Indian Instt. of Management, Ahmedabad, 1972–74; Swastik Rubber Products Ltd., Pune, etc.; Mem.: Executive Board, International Chamber of Comm., Paris; Maharatta Chamber of Commerce, Pune; Dir.: Reserve Bank of India, Ind. Dvpmt., Bank of India; Dir. of several other Companies. *Address: Office:* Kirloskar Oil Engines Ltd., Corporate Office, 11, Koregaon Rd., Pune 411001. *Residence:* "Lakaki", Shivajinagar, Pune 411016.

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KOTHARI, Swatantra Singh, Chartered Accountant and Ex-M.P. (Lok Sabha). *b.* 1930. Dir.: Auckland Jute Co. Ltd., Pratappur Sugar Mills Ltd., Kothari Mgmt. and Indl. Consltts. Ltd., etc.; Mem.: Lok Sabha, 1967–70; Pub. Undertakings Cttee., 1967–69; National Central Savings Advisory Bd., 1968–69; Calcutta Productivity Council, 1966–68 & 1974–75; Central Council, Instt. of Chartered Accountants of India, 1964–67; Vice-Chmn.: Taxation Cttee.; Fedn. of Indian Chambers of Commerce & Ind., 1975–76; Banking & Finance Cttee., Indian Chamber of Commerce, 1973–75; Mem., Mg. Cttee.; Exec. Pres., Centre for Econ. and Social Studies; Fellow, Royal Economic Socy. (U.K.), 1967–76. *Address:* India Steamship House, 21, Old Court House St., Calcutta 700001.

KRIPALANI, Acharya J. B., M.A. (History and Economics), Dir., Shri Gandhi Ashram, Village and Khadi Orgn., Lucknow. *b.* 1888. General Secy. of Indian National Congress, 1934–46; Pres., Indian National Congress, Oct. 1946; resigned Nov. 1947; joined Mahatma Gandhi in Champaran Satyagraha, 1917; Private Secy. to Pandit Madan Mohan Malaviya, 1918; [illegible] Gandhi Ashram; started Khadi and Village work, 19[illegible], through the Gandhi Ashram, Banaras; Mem., Constituent Assembly of India, 1946–51; formed the Congress Democratic Front, 1951; resigned from Congress and formed Kisan Mazdoor Praja Party, 1951; merged K.M.P.P. with the Socialist Party, Oct. 1951; was Chairman, P.S.P. till Dec. 1954; elected to Lok Sabha, 19[illegible], 1957, 1963 & 1967. *Address:* A-4, Sarvodaya [illegible], New Delhi 110017.

KRISHNA IYER, Mr. Justice V. R., Judge, Supreme Court of India, since 19[illegible], *b.* Nov. 19[illegible]. M.L.A. Madras, '52; Min. for Law, Home, Irrigation & [illegible], Kerala State, 1957-59; Judge, Kerala High Court, 19[illegible]-71; Mem.: Exec. Cttee., All India Animal [illegible]

Board, Board of Intl. Probation Organisation, Law Commission, 1971–73; Vice-Pres., Indian Socy. of Intnl. Law; Indian Assn. of Lawyers, Inst. of Constitutional and Parliamentary Studies, Foundation for the Establishment of an Intnl. Criminal Court, Boston; Founder-Dir., Kerala Law Academy; associated with Indo-Soviet Cultural Socy., Central Social Welfare Bd., Intnl. Democratic Lawyers. Assn. & several cultl. organisations; delivered addresses at several international gatherings — at Berkeley, Manila, Stockholm, Salisbury etc.; author of several legal publications and of travelogues in Malyalam. *Address:* Supreme Court of India, Tilak Marg, New Delhi 110001.

KRISHNAN, Vice-Admiral Nilkanta, Chairman & Mg. Dir., Cochin Shipyard Ltd., since March 1973. *b.* June 8, 1919. Jt. Services Staff Coll., U.K. (1951); Imperial Defence Coll., London (1965). Joined the "DUFFERIN", 1935, Indian Navy, 1938; saw active service during World War II; awarded Distinguished Service Cross; was in command of several types of warships including INS "VIKRANT" for two years; Dir. of Naval Plans, 1948–50; was lso Dy. Secy. (Military) to the Union Cabinet and Naval Adv. to the Indian High Commr. in U.K.; Chief of Naval Aviation and Asstt. Chief of the Naval Staff; Vice-Chief of the Naval Staff, 1967–70; Flag Officer Commanding-in-Chief, Western Naval Command; FOC-in-C, Eastern Naval Command, 1971–73; recipient of eighteen medals and the highest peacetime award, PVSM. *Address:* Cochin Shipyard Ltd., Cochin 682015.

KRISHNAN, Ramanathan, M.A., Helms World Trophy for the Foremost Sportsman from Asia of 1966, a leading tennis player; Gen. Mgr., Madras Cylinder Gas Co. *b.* April 11, 1937. National Lawn Tennis Champion of India, 1954, 1957, 1959, 1960, 1961, 1963, 1964 & 1965; Wimbledon Junior Lawn Tennis Champion, 1954; won the London Grass Court Championship and the American Hard Court Championship, 1959; won the Lawn Tennis Championship of Asia, 1959, 1963, 1964 & 1965; was the first Indian to enter semi-finals at Wimbledon, 1960 & 1961; has played for India in the Davis Cup since 1953; ranked as India's No. 1, 1953–66; led India to Challenge Round, 1966. *Address:* 26, Sundreswaran St., Madras 600004.

KULKARNI, S. R., Pres., All-India Port & Dock Workers' Federation. *b.* March 25, 1928. Has been connected with the dockers' movement for the last 32 years; is associated with a number of other trade union orgns.; Trustee, Bombay Port Trust, since 1958. *Address:* Block No. 58, Chanchal Smriti, Katrak Rd., Wadala, Bombay 400031.

KUMAR, Naresh, B.Com., Arjuna Award (1962), a leading tennis player, tennis commentator, sports writer & businessman. *b.* Dec. 22, 1928. National Junior Tennis Champion, 1945, 1946; ranked India's No. 1, 1951–52; Mem. of Indian Davis Cup Team, 1952-53-54-55-56-57-58-59-60-61; Captain, Indian Davis Cup Team, 1955-56-57-58-59-60; winner of several Championships; ranked India's No. 2, 1955–56, 1958–59; reached mixed doubles quarter-finals at Wimbledon with Miss E. Buding (Germany), 1957; reached men's doubles quarter-finals at Wimbledon with N. Nath and R. Krishnan, 3 times; won doubles championships of Moscow with A. Huber (Austria) 1957; Asian Doubles Champion with Krishnan, 1962–63 & 1963–64. *Address:* 15, Shakespeare Sarani, Calcutta 700016.

KURIEN, Verghese, B.Sc., B.E. (Hons.) (Mech.), M.Sc. (Mech. Engg.), F.I.E. (India), D.Sc., LL.D., Chmn.: National Dairy Devpt. Board, Anand; Indian Dairy Corpn., Vadodara Kadana Devpt. Assocn. (Vadodara), Gujarat State Co-operative Cotton Mktg. Fedn. (Ahmedabad); Chmn. & Mg. Dir., Gujarat Co-operative Milk Mktg. Fedn. Ltd., Anand. *b.* Nov. 26, 1921. Dir.: Gujarat Dairy Devpt. Corpn.; Kaira Dist. Co-operative Milk Producers' Union Ltd.; Reserve Bank of India (Central Board), Bombay; Mem., Protein Foods & Nutrition Devpt. Assocn. of India, Bombay; Reconstituted Consultative Council on Co-operation, General Council — National Co-op. Devpt. Corpn.; Chmn., XIX Intnl. Dairy Cong., 1974; was Mem.: Intnl. Dairy Fedn., Brussels; Board of Management, Gujarat Agri. Univ.; Fellow, Insttn. of Engineers (India); Hony. Mem., Assocn. of Food Technologists (India); Life mem., Indian Dairy Sci. Assn.; awarded Ramon Magsaysay Award for Comm. Leadership '63; Hony. Degree of D.Sc. (Michigan State Univ.) '65; Hon. Degree of Doctor of Laws by Glasgow Univ., '74; awarded NIF Escorts Man of the Year 1974; Business Leadership Award — Madras Management Assocn., Madras (1978). *Address:* National Dairy Devpt. Board, Anand 388001.

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KUSHWAHA, Ram Singh, M.Sc. (Maths.), D. Phil. (Maths.), Ph.D. (Astronomy), (Princeton); F.N.A., F.N.A. Sc.; Higgins Fellow, Princeton Univ.; NRC Post-Doctoral Fellow, Canada; Fellow, Indian Nat. Sci. Academy (1973), Scientist. *b.* Mar. 1, 1922. Lecturer in Maths., Allahabad Univ., 1947-59; Reader in Astrophysics, Delhi Univ., 1959-63; Prof. & Sr. Prof. of Maths., Jodhpur Univ., since 1963. *Address:* Deptt. of Maths., Univ. of Jodhpur, Jodhpur 342001.

LAKDAWALA, Dr. Dhansukhlal Tulsidas, M.A., LL.B., Ph.D., Dep. Chmn.: Planning Commission; Edit.: A Survey of Research in Economics, ICSSR. Dir., Deptt. of Economics, Univ. of Bombay; Chairman, U.P. Taxation Enquiry Cttee.; Expert in Public Finance and Intnl. Economics. *b.* Oct. 4, 1916. Was Dir., Sardar Patel Instt. of Eco. & Soc. Research, Ahmedabad (1970–71); Mem., 5th Finance Commn.; National Fellow, I.C.S.S.R. *Address:* Yojana Bhavan, Parliament St., New Delhi.

LAL, Bipen Behari, M.Sc., I.C.S., Governor of Sikkim; since May 1975. *b.* Jan. 30, 1917. Joined I.C.S., 1941. Dist. Magistrate, Hardoi & Dehra Dun, 1942–51; Jt. Secy., Finance; Finance Secy., Commr. & Secy., Irrigation & Power cum Chmn., U.P. State Electricity Bd., 1951–65; Fellow, Harvard Univ., 1965–66; Chief Secy., U.P., 1967–69; Addl. Secy., Deptt. of Exp., Min. of Finance, Govt. of India, 1969–70; Secy.: Deptt. of Personnel, 1970–71; Min. of Indl. Devpt., 1971–73; Min. of Commerce & Adviser to Governor, U.P., 1973; Sec., Plng. Commn., 1973–74; Spl. Adviser and later Chief Executive to Sikkim Govt., 1974–75. *Address:* Raj Bhavan, Gangtok 737101.

LAL, DEVI, Chief Minister, Haryana State. *b.* Sept. 25, 1914. Participated in Quit India Movement and suffered imprisonment; M.L.A., undivided Punjab, 1952–57 and since 1959 ; Pres., Punjab P.C.C. and Chief Parl. Secy., 1956 ; resigned from the Congress Party and organised Haryana Lok Samiti, 1962 ; Leader of the Opposition till 1966 ; Chmn., Haryana Khadi Bd., 1968–71 ; elected to Haryana Assembly in 1974 bye-election ; arrested under MISA in June, 1975 and detained for 19 months ; again elected in June 1977. *Address :* Civil Secretariat, Chandigarh 160001.

LALBHAI, Arvind N., B.Sc. (Bombay Univ.), Industrialist ; Chmn. : Asoka Mills Ltd., Digvijay Woollen Mills Ltd., Suessen Bearings, Lalbhai Exports Ltd. ; Mg. Dir. : Arvind Mills Ltd., Ahmedabad. *b.* April 3, 1918. Dir., Atul Products Ltd., Anil Starch Ltd., SLM—Maneklal, Kothari (Madras) Ltd. ; Ex-Dir., SBI ; Pres., Ahmedabad Millowners' Assn., 1957–58, 1961–62 and 1976–77 ; Gujarat Chamber of Commerce, 1969–70 ; Mem. : Indian National Cttee. of Intnl. Chamber of Commerce ; Mg. Cttee. of FICC & I, New Delhi. *Address :* "Shalimar", Shahibaug, Ahmedabad 380004.

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LARA-VILLAREAL, H.E. Dr. Jose Antonio, Ambassador Extraordinary and Plenipotentiary of Mexico since August, 1977. *b.* Dec. 5, 1944. Served in the Mexican Embassy in Brazil, 1974–76. *Address :* Embassy of Mexico, N-88, Panch Sheela Park, New Delhi 110017.

LATIF, Air Chief Marshal Idris Hasan, PVSM., Chief of the Air Staff, since Sept. 1, 1978. *b.* June 9, 1923. Graduated from Defence Services Staff Coll., Wellington (Nilgiris) ; National Defence Coll., New Delhi ; Param Vishisht Seva Medal, 1971 ; commissioned into I.A.F., Jan. 1942 ; Air Attache, Washington, 1961–65 ; Air Defence Commander and Sr. Air Staff Officer, Eastern Air Command, Shillong and Air Officer Commanding, Pune ; promoted Air Vice-Marshal and posted to Air Hqrs. as Asstt. Chief of Air Staff (Plans), 1971 ; Air Officer [illegible] Admn., as Air Marshal, Jan. 1974 ; Air Officer Commanding-in-Chief, Central Air Command, June 1974 ; [illegible] Command, Mar. 1976 ; Vice Chief of the Air Staff, [illegible] 1977. *Address :* Air Hqrs., Vayu Bhavan, New Delhi 110011.

LIMAYE, Madhu, M.P., Politician. *b.* May 1, [illegible] Was associated with Indian National Congress, [illegible] ; took part in freedom struggle and Goa liberation movement ; Mem., Socialist Party, since '38 ; Secy., [illegible] Socialist Bureau, Rangoon, '53 ; Chmn., Socialist Party, '53 ; Mem., Lok Sabha, Dec. '64—Dec. '70 & 1973–76 ; resigned on March 18, 1976 as a protest against extension of term ; re-elected in 1977 from Banka ; Gen. Secy. of the newly formed Janata Party. *Address :* 6, Rachana, [illegible] Perry Cross Rd., Bandra, Bombay 400050; 15A-B, [illegible] Rd., New Delhi 110011.

MADHOK, Balraj, M.A. (His.) (1942) ; Politician, Author. *b.* Feb. 25, 1920. Founder Secy., J. & K. Praja Parishad, 1947 ; Founder Secy., Akhil Bhartiya Vidyarthi Parishad, 1948–50 ; Founder Mem. and Secy., Bharatiya Jan Sangh, 1951–65 ; Pres. : Delhi State Jan Sangh, 1955–[illegible] ; All India Jan Sangh, 1966–67 ; Editor, *Organiser Weekly* ; M.P., 1961–62 & 1967–71 ; Mem. : Study Team on Defence, 1968–70 ; Cttee. on Public Undertakings, 1968–69 ; Cttee. on Defence and Foreign Affairs ; Founder Pres., National Democratic Party (Loktantric Sangh), 1973 ; Founder Mem., Janata Party ; author of 13 Hindi books and 11 in English incl. biography of Dr. Shyama Prasad Mookherji ; at present Head of the Deptt. of History, D.A.V. Coll., New Delhi. *Address :* J. 394, Shankar Rd., New Delhi 110060.

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MAFATLAL, Rasesh Navinchandra, B.A. (Hons.), Industrialist ; Chmn. & Mg. Dir., Standard Mills Co. Ltd. *b.* March 6, 1934. Dir. : Mafatlal Group of Companies, National Organic Chemical Ind. Ltd., Hoechst Dyes & Chemicals Ltd., Automobile Products of India Ltd., Hindustan Motors Ltd., Indian Hotels Co. Ltd., SLM-Maneklal Industries Ltd., Rexroth Maneklal Ltd., National Machinery Mfrs. Ltd., Mafatlal Ltd., [illegible] U.K., Mafatlal AG, Zurich, Switzerland, Mileo Corporation Pty. Ltd., Singapore etc. Chmn. : Indian Cotton Mills Federation (1977-78), Cttee. Mem.: Millowners Association, Bombay, Cotton Textiles Export Promotion Council, Ahmedabad Education Soc. *Address :* Mafatlal House, Backbay Reclamation, Bombay 400020.

MAHESHWARI, Satish, B.Sc. (Hons.), M.Sc., Ph.D., Scientist and Prof. of Botany, Univ. of Delhi, since [illegible] *b.* Oct. 4, 1933. Lecturer in Botany, Delhi Univ., [illegible] ; Reader, 1961–[illegible] ; [illegible] Doctoral Research, Yale Univ., 1959–60 ; Post Doctoral Research Fellow, California Instt. of Tech., [illegible] Homi Bhabha Fellow (1973–74), Harvard Univ. ; [illegible] in physiology & biochemistry of plant growth and devpt. *Address :* Deptt. of Botany, Delhi Univ., Delhi 110007.

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MALHOTRA, Lt.-Gen. Om Prakash, B.A.; PVSM, Chief of the Army Staff since 1st Jan., 1978. *b.* Aug. 6, 1922. Commissioned into Artillery from Indian Military Academy, 1941 ; Instructor, School of Artillery, Devlali ; Defence Services Staff Coll., Wellington, 1957–60 ; Military & Naval Attache, Embassy at Moscow, 1962-65 ; commanded Artillery Brigade in Sialkot Sector, 1965 ; Mountain Brigade in NEFA, 1966-67 ; promoted to the rank of Major-Genl. in command of an Infantry Divn., 1967 ; Chief of Staff, Corps Hqrs., Eastern Sector, 1969 ; Corps Commander, Western Sector, in rank of Lt.-Genl., 1972-74 ; GOC-in-C, Southern Command, Aug. 1974–77. *Address :* Army Headquarters, New Delhi 110011.

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MANEKSHAW, Field Marshal, Sam Hormuzji Framji Jamshedji, promoted to the rank of Field Marshal, 1973 ; was Chief of the Army Staff, Indian Army, June 1969–Jan. 1973. *b.* April 3, 1914 ; Commissioned, 4 Feb. 1934 ; awarded Military Cross, 1942 ; Brigade Major, Razmak Brigade in Waziristan, 1943–44 ; Instructor, Staff Coll., Quetta, 1945–46 ; General Staff Officer Grade 1, Military Operations Directorate, A.H.Q., 1946-47 ; promoted Brig., 1947 ; Dir. of Military Operations, 1948–52 ; commanded 167 Infantry Brigade, 1952–54 ; Dir. of Military Trg. until Jan. 1955 ; Major Gen., 1957 ; Commander, 26 Infantry Divn., J. & K. State, 1957–59 ; Commandant, Defence Services Staff College, Nilgiris, 1959–62 ; G.O.C. IV Corps, 1962–63 ; G.O.C.-in-C., Western Command, 1963–64 ; Eastern Command, 1964–69 ; Colonel, 8th Gorkha Rifles. Hon. Gen. of the Nepalese Army ; awarded Legion of Merit, U.S.A. 1970. Chmn. : All India Council of Sports ; Dir. : The Bombay Burmah Trading Corpn., Indian Aluminium Ltd., Escorts Ltd. ; Decorated with, Trishakti-Patta, 1st class by H. M. King of Nepal 1977. *Address :* C/o National and Grindlays Bank, Bombay & New Delhi ; 'Starka', Coonoor (S.I.) 643101.

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Millowners' Assn., 1955 and 1958; Ahmedabad Management Assoc., 1959; elected M.L.A., Bombay from Ahmedabad, 1951; rep. of employers on E.S.I. Corpn.; Vice-Pres., F.I.C.C. & I., 1971–72; Pres., F.I.C.C. & I., 1972–73; Chmn.: Gujarat Housing Board, 1960–67; Indian Cotton Mills Fedn., Bombay, 1967–69. *Address:* Mangal Bag, Ellis Bridge, Ahmedabad 380006.

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MEHTA, Asoka, Economist and Politician; Janata Party leader. *b.* Oct. 24, 1911. Founder member of Congress Socialist Party, 1934; Gen. Secy., 1950-53; Chmn., PSP., 1959-63; Mem. of National Exec. for 30 years; was Dy. Leader of P.S.P. group in Parlt.; prominent trade unionist; founder of Hind Mazdoor Sabha, 1949; its first Gen. Secy., Chmn., Foodgrains Enquiry Cttee. and Power-loom Enquiry Cttee., Dy. Leader, Indian delegation to U.N., 1963; Dy. Chmn., Plng. Commn., 1963–66; Min. for Plng., Govt. of India, 1966-67; Min. for Plng., Petroleum & Chemicals, Mar.-Sept. 1967; Min. of Petroleum and Chemicals and Social Welfare, 1967–68; Mem.: National Defence Council; Cong. Wkg. Cttee., 1969-71. was Pres., Indian National Congress (O). *Address:* Jaya Rose Farm, Village Chhatarpur, New Delhi 110030.

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1943–47; Amb. in China, March 1947; Chmn., U.N. Commn. on Korea, 1948; Foreign Secy., Govt. of India, 1948–52; Amb. to U.S.S.R., Hungary & Poland, 1952–61. *Address:* Palat House, Ottapalam 679101, Kerala State.

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MITRA, Dr. Bhupendra Nath, ex-Colonel, D.Sc. (Dacca), Ph.D. (Minnesota), F.R.I.C., Sigma XI, Scientist, *b.* 1905. Awarded Rockefeller Foundation Fellowship, 1936-37; invited to attend Intnl. Congress for microbiology, New York, 1939 and for pure and applied chemistry, London, 1947; commissioned in the Indian Army, 1940; Asstt. Dir. Gen., C.S.I.R., 1958-59; Dir., Regional Research Laboratory, Jorhat, 1959-64; Dir., Central Indian Medical Plants Orgn., Lucknow, 1964–65; Emeritus Scientist, C.S.I.R., 1966–71; formulated explosive PEK and some ammunition of conventional weapons. *Address:* 83/1A, Ballyganj Place, Calcutta 700019.

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MODI, Suresh Kumar, Businessman. *b.* June 6, 1939. Dir.-in-Charge, Modi Flour Mills, since 1959; Chairman, Patiala Flour Mills Co. Ltd.; Mg. Dir., Modi Industries Ltd., Modinagar; looks after Modi Gas & Chemicals, Modi Paints & Modi Soap; Mem.: All India Toiletries Mfrs.' Assocn.; Adv. Board of Employees State Insce.; Ex-Vice-Pres., A.I.M.O. (N. Regn.); Ex-Chmn., All India Paints Assocn. (N. Zone); Ex-Pres.: A.I.M.O., Delhi State Board; Lions Club of Delhi United, etc. *Address:* Modi Flour Mills, Okhla Ind. Estate, New Delhi 110020.

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MUKERJEE, Smt. Sharda, B.A. (Hons.), Governor of Gujarat, since Aug. 14, 1978. Elected to Lok [illegible] from North Ratnagiri Constituency (Maharashtra), 1962 & 1967 ; was Mem., A.I.C.C. ; Exec. [illegible] of the Congress Parl. Party ; opted for the Congress (O) following the Congress split in 1969 ; as M.P., served on a [illegible] important cttees. such as National Shipping Bd., [illegible] Cttee., Consultative Cttee. of the Defence Min. ; Ex-Chmn., Small Savings Advisory Bd. ; Social Worker [illegible] Mem., I.A.F. Benevolent Assocn. ; Chmn., Armed [illegible] Welfare Assocn. ; Governor, Andhra Pradesh, May 1977–Aug. 1978. *Address :* Raj Bhavan, [illegible]

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Instt., Malaysia ; Mem., Edtl. Bd. of Theoretical & Applied Genetics ; Vice-Pres., Indian Socy. of Genetics & Plant Breeding ; has rendered research and teaching in breeding, genetics and crop prodn. involving multiple disciplinary co-ordination with nuclear and conventional tools in cereals, oilseeds and grain legumes ; has contributed to Fundamental Genetics in the field of multivariate analysis for the assessment of genetic divergence in biological populations ; acted as Dir., FAO Intnl. Trg. Programme on maize, sorghum & millets for improvement of relevance to Africa, Asia & L. America. *Address :* Nuclear Research Laboratory, Indian Agri. Research Instt., New Delhi 110012.

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to the King of Nepal, 1951-54; Secy., P.W.D., Power & Inf., U.P., 1954-55; Devpt. Commr. and Secy., Plng., Eco., Stats. & Inf., 1955-58; also Commr., Uttarkhand Dn.; Ch. Secy., U.P. Govt., 1958–61; Mg. Dir., S.T.C., 1961–63; Chmn., S.T.C., May–Oct. 1963; Minerals & Metal Trdg. Corpn. of India Ltd., 1963–66; Adviser to the Governor of Kerala, Jan.–Apr. 1965; Secy., Deptt. of Family Plng., Min. of Health & Family Plng., Govt. of India, Mar.–Dec. 1966; Secy., Min. of Health, Family Plng. and Urban Devpt., 1966–68; Min. of Defence, Deptt. of Defence Prodn., Nov. 1968–Dec. 1970; Min. of Home Affairs, Jan. 1971–May 1973; Defence Secy., 1973–75; Mem., A. P. Administrative Tribunal, 1976–77. *Address:* Raj Bhavan, Bangalore 560001.

NARAIN, Hari, M.Sc. (1943), D. Phil. (1950), Ph.D., Sydney Univ. (1954), D.Sc. (Honoris Causa), I.S.M., Dhanbad (1978); Vice-Chancellor, Banaras Hindu Univ., since May 1978. *b.* Sept. 21, 1922. Lecturer-in-Charge of Geophysics, Sydney Univ., 1952–56; Suptdg. Geophysicist, O.N.G.C., 1956–62; Dir.: Research & Trg. Instt., O.N.G.C., 1962–64; Natl. Geophysical Res. Instt., Hyderabad, 1964–78; Surveyor Genl. of India, 1972–76; Mem., Natl. Cttee. of Sce. & Technology, 1971–77; Chmn., Internal. Geodynamics Project on Himalayan Region. *Address:* Banaras Hindu Univ., Varanasi 221005.

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NARAYAN, Jayaprakash, Indian leader and statesman, popularly known as *Loknayak*. *b.* Oct. 11, 1902. Founder Secy., Congress Socialist Party; Head of Labour Dept., Indian National Congress, 1931; was Mem., Congress Wkg. Cttee.; jailed several times during freedom struggle; led revolutionary underground movement against British imperialism (1942–43); Ex-Pres., All-India Railwaymen's Fedn.; left Congress to lead socialist opposition, 1948; gave up party politics to join *Sarvodaya*, 1954; worked for success of *Bhoodan* (land-gift) movement; organised Afro-Asian convention on Tibet, 1960; was instrumental in restoration of peace in Nagaland as mem. Naga. Peace Mission, 1964; winner of Ramon Magsaysay Award for public service, 1965; undertook world tour and organised Intnl. Cfce. for liberation of Bangladesh, 1971; brought about peaceful surrender of Chambalghati dacoits thus ending centuries-old problem, 1972; led mighty students' and youth (later people's) movement for total revolution (1974–75); was arrested by Govt. of India, June 26, 1975; released on 12th Nov., 1975 on health grounds; unified democratic opposition and inspired formation of Janata Party leading it to victory in post-emergency elections, thus ending 30-year Congress rule. *Address:* Kadamkuan, Patna, Bihar.

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REDDY, Neelam Sanjiva, President of India, since July 25, 1977. *b.* May 19, 1913. Secy., Andhra P.C.C., 1936-46; courted jail for participation in *satyagraha* movement; Mem., Indian Constituent Assembly, 1947; Min. for Prohibition, Housing and Forests, Madras, 1949-51; Mem., Rajya Sabha, 1952-53; M.L.A., Andhra, 1953 and 1955; Dy. Chief Min., Andhra State, 1953 and 1955-56; Chief Min., A.P., 1956-60 and 1962-63; Pres., Indian Nat. Cong., 1960-62; Union Min. for Steel & Mines, 1964-66; Min. for Transport, Aviation & Shipping, Govt. of India, Jan. 1966-May 1967; Speaker, Lok Sabha, 1967-69; Mar.-July 1977. *Address:* Rashtrapati Bhavan, New Delhi 110004.

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SEN, Mihir Kumar, B.Sc., LL.B., Barrister-at-Law, Associate Fellow, Br. Inter-Planetary Socy., [illegible] *b.* Nov. 16, 1930. Called to the Bar from Lincoln's Inn, [illegible] 1954 ; set up practice at Calcutta High Court, May [illegible] first ever Indian to attempt and swim the English Channel from Dover to Calais Sept. 1958, in 14 hours 45 mins., then the fourth fastest on this distance ; first man to swim the Palk Strait, a distance of [illegible] between India & Sri Lanka in 25 hrs. 36 min., 5-6 April, 1966; first Asian to swim the Straits of Gibraltar on Aug. 24, 1966; first man to swim the Dardanelles Straits a distance of about 40 miles in 13 hours and 55 minutes, Sept. 12, 1966; swam the straits of Bosporus, 16 miles, Sept. 21, 1966; Panama Canal, 42 miles, 35½ hours, Oct. 29 to 31, 1966; acknowledged as the world's Greatest Long Distance Swimmer by Guinness Book of Records, Lond. 1969. Founder, Explorers' Club of India, Calcutta. *Address :* 10, Government Place East, Calcutta 700001.

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SHAM LAL, Contributing Edit., *The Times of India*, was Editor, *The Times of India*, 1967–76; he joined in 1950; was Editor-in-Chief, 1976–78. *b.* Nov. 7, 1912. With *The Hindustan Times*, 1934–46; Asstt. Editor, *Indian News Chronicle*, Delhi, 1946–50; writes regular weekly column for *The Times of India*. *Address :* A-28, Gulmohar Park, New Delhi 110049.

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SHANKWALKAR, Dr. G. B., L.D.S., C.P.S., B.D.S., M. S. (Indiana Univ., U.S.A.), Ex-Pres., Dental Council of India. *b.* Jan. 15, 1929. Dean, Govt. Dental Coll. & Hosp., Bombay; has guided over 40 research projects and published over 30 papers; Mem., Intnl. Assn. for Dental Research, American Academy of Periodontology, Indian Academy of Dentistry, Indian Dental Assn., Dental Council of India, etc.; Chmn., Dent. M.I.S.I.; W.H.O. Fell. '69; Past Dean, Dental Faculty, Bombay University. *Address :* Govt. Dental Coll. & Hosp., Bombay 400001.

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SHARMA, Bhagwat Dayal, Governor of Orissa, since Sept. 23, 1977. *b.* Jan. 26, 1918. Trade Unionist and Gen. Secy., INTUC (Regnl.), Punjab, H.P. and Jammu & Kashmir; its Pres., 1959–62; Mem., Wkg. Cttee., INTUC, 1959; its Org. Secy., 1961; Pres., P.C.C., Punjab, 1963-66; Haryana P.C.C., 1966; Mem., Congress (O) Wkg. Cttee., 1970; M.L.A., Punjab, 1962–66; Haryana, 1966–67; Chief Minister, Haryana, Nov. 1966–Mar. 22, 1967; Mem., Rajya Sabha, 1968–74; elected to Lok Sabha from Karnal on Janata Party ticket, 1977. *Address :* Raj Bhavan, Bhubaneswar 751008 (Orissa).

SHARMA, Kapil Dev, B.Sc. (Tech.) (B.H.U.), 1944; M.Sc. (Tech.), (Sheffield Univ.), 1948; Fellow, Socy. of Glass Technology (U.K.), Instt. of Ceramics (U.K.); Pres., Indian Instt. of Ceramics; Scientist; Director, Central Glass & Ceramic Research Instt., Calcutta, since 1967. *b.* July 27, 1920. *Address :* Central Glass & Ceramic Research Institute, Jadavpur, Calcutta 700032.

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SINGH, Charan, Dy. Prime Minister in charge of Finance, Govt. of India, since Jan. 1979. *b.* 1902. M.L.A., U.P., 1937-77, 1946. 1952, 1962 & 1967; Min. for Justice & Inf., U.P., 1951; Revenue & Agri., 1952; Home & Agri., 1960; Agri. & Forests, 1962-63; Local Self-Govt., 1966; Chief Min., U.P., 1967, 1970; elected to Lok Sabha, 1977. Min. for Home Affairs, Govt. of India, 1977-79 *Address :* 12, Tughlak Rd., New Delhi 110001.

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SINGH, Dr. Karni, B.A. (Hons.), Ph.D., Former M.P. *b.* Apr. 21, 1924. Elected to Parliament as an independent, 1952; re-elected for 2nd, 3rd and 4th terms; re-elected to Lok Sabha as an independent in the 1971 mid-term elections; represented India, Clay Pigeon Shooting, Olympic Games, Rome, 1960, Oslo World Shooting Championships, 1961; captained Indian Shooting Team, 38th World Shooting Championships, Cairo, 1962; Tokyo Olympics, 1964; World Shooting Championships, Wiesbaden, 1966; Bologna, 1967; World Olympics, Mexico, 1968; Munich, 1972; 7th Asian Games at Teheran and won silver medal for Trap and bronze for Skeet, 1974; represented on various Govt. of India Ministries; Mem., Asiatic Socy. of India & Bombay Natural His. Socy. *Address :* Lallgarh Palace, Bikaner 334001.

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SUBBULAKSHMI, Smt. Madurai Shanmugavadivu, Ramon Magsaysay Award (1974); President's Award for Karnatic Music, 1956. *b.* Sept. 1916. Gave solo performance and became a leading musician before 18; her part as heroine in the Hindi film "Meera" won for her all India popularity; has given more than 100 benefit recitals in aid of many national, social and religious causes; represented Carnatic Music in the Edinburgh Intnl. Festival of Arts, 1963; also gave concerts in London, Frankfurt, Geneva and Cairo; special concert before U.N. Assembly on U.N. Day (Oct. 23, 1966) on invitation; 7-week concert tour in the U.S.A., Oct.–Nov. 1966; had private audience with Pope, Dec. 3, 1966; first woman musician to be elected Pres. of the Madras Music Academy Cfce., 1968; recipient of Tamil Isai Sangha title 'Isai Perarignar', 1970; Conferred on her: D.Litt. by Rabindra Bharati Univ., 1967; 'Doctor of Letters' by Shri Venkateswara Univ., 1971 and by Delhi Univ., 1973. *Address:* "Kalki Buildings", Chetput, Madras 600031.

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TAPASE, G. D., Governor of Uttar Pradesh, since Oct. 2, 1977. *b.* July 15, 1909. M.L.A., Bombay, 1946, 1952; Min. for Inds., Backward Classes, Fisheries, Housing etc., Bombay State, 1946–57; Ex-Mem., A.I.C.C.; Mem., Rajya Sabha, 1962–68; Chmn., Railway Service Commission, Bombay, 1968–71. *Address :* Raj Bhavan, Lucknow.

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TATA, Naval Hormusji, Industrialist. *b.* Aug. 30, 1904, Bombay. Chmn.: Central India Spg., Wvg. & Mfg. Co. Ltd., Swadeshi Mills Co. Ltd., Ahmedabad Advance Mills Ltd., Tata Mills Ltd., Tata Electric Companies; Indian Cancer Socy.; Dy. Chmn.: Tata Sons Ltd., Tata Industries Ltd.; Director: Telco Ltd., Investment Corpn. of India Ltd.; Pres.: Employers' Fedn. of India; Trustee;

Sir Dorabji Tata Trust, Sir Ratan Tata Trust, N. M. Petit Trust ; Mem. : Indian Cotton Mills Fedn., Governing Body, I.L.O., Geneva ; Vice-Chmn. : Intnl. Orgn. of Employers, Geneva. *Address: Res.* : Tata House, Waudby Rd., Fort, Bombay 400001 ; *Office* : Bombay House, Homi Mody St., Bombay 400023.

TATA, Ratan Naval, Industrialist ; Dir.-in-Charge, National Radio & Electronics Co. Ltd. *b.* Dec. 28, 1937. Dir. : Tata Sons Ltd., Tata Industries Ltd., Ahmedabad Advance Mills Ltd., Tata McGraw-Hill Publishing Co. Ltd., Indian Resort Hotels Ltd., Andhra Valley Power Supply Co. Ltd., Central India Spg., Wvg. & Mfg. Co. Ltd. ; Trustee, J. N. Tata Memorial Trust, Sir Ratan Tata Trust, etc. *Address* : Tata House, Waudby Rd., Bombay 400001.

THAKUR, Karpoori, Chief Minister, Bihar State, since June 24, 1977. *b.* May 1921. Joined Quit India Movement and suffered imprisonment ; has always been in the forefront of *Kisan*, *Mazdoor* and Youth Political movements ; Founder-Mem., Congress Socialist Party and its Secy. for several years ; was Chmn., All India S.S.P. and All India Socialist Party ; Dy. Chief Min., Bihar, Mar. 5, 1967–Jan. 25, 1968 ; Chief Min., Dec. 22, 1970–June 1, 1971 ; member of Bihar Vidhan Sabha from 1952–74 ; resigned from Bihar Vidhan Sabha, May 7, 1974 ; elected to Lok Sabha as a Janata candidate, Feb. 1977 ; elected to the Assembly in Dec. 1977. *Address* : Patna.

THIRANI, Sushil Kumar, Industrialist ; Chmn. & Mg. Dir.: Kores (India) Ltd., since '66. *b.* Oct. 20, 1930. Joined the Board of Directors, Kores (India) Ltd., after Indianisation. *Address* : Kores (India) Ltd., P.O. Box 6558, Plot No. 10, Off Dr. E. Moses Rd., Worli, Bombay 400018.

THOMSON, H.E. Sir John Adam, British High Commissioner to India. *b.* Apr. 27, 1927. Entered Foreign Service, 1950 and served in British Embassies in Jeddah, Damascus and Washington ; Private Secy. to the Permanent Under Secy. ; Actg. Head, Plng. Staff and Counsellor, Head of Plng. Staff ; Chief of Assessments Staff, Cabinet Office, 1968 ; Min. & Dy. Permanent Rep. to the North Atlantic Council, 1972 ; Asstt. Under Secy. of State, Foreign & Commonwealth Office, Oct. 1973–76. *Address* : British High Commission, Shantipath, Chanakyapuri, New Delhi 110021.

THUNGON, Prem Khandu, Chief Minister, Arunachal Pradesh, since Mar. 14, 1978. *b.* June 5, 1946. Became the first Chief Minister of Arunachal Pradesh, Aug. 15, 1975 ; delegate to U.N. Gen. Assembly, 1976 ; elected unopposed and became the leader of the Janata Party in the Leg. Assembly, Mar. 11, 1978 ; Chmn., N. Eastern Regnl. Electricity Bd. ; Mem. : N. Eastern Council, Hindi Salahkar Samiti, etc. *Address* : Chief Minister's Residence, Itanagar 791111 (Arunachal Pradesh).

TILAK, Raghukul, M.A., Governor of Rajasthan, since May 12, 1977. *b.* Jan. 7, 1900. Took part in non-cooperation movement and suffered imprisonment ; elected to U.P. Assembly, 1939, 1946 ; joined Socialist Party, 1948; Chmn., Rly. Service Commn., N. Zone, 1953-58 ; Mem., Rajasthan Pub. Service Commn., 1958-60 ; Vice-Chancellor, Kashi Vidyapith, Varanasi, Dec. 1971-Aug. 1974 ; Hon. Treasurer & Prof., Gandhian Instt. of Studies, Varanasi, Aug. 1974-Sept. 1976. *Address* : Raj Bhawan, Jaipur.

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TODI, Sanwarmal Bhagwandas, Industrialist. *b.* July 3, 1925. Chmn. : Rajasthan Cable Ind. Ltd., Hathising Mfg. Co. Ltd. ; Dir., Todi Ind. Pvt. Ltd., Crop Devpt. Pvt. Ltd., Bombay Machinery Mfg. Co. Ltd., etc., Ex-Pres., All India Rope Mfrs. Assn. ; Chmn. : AIMO Pubns. & Directory Cttee. ; Pres., Marwadi Sammelan ; Trustee, Marine Drive Citizens Assn. ; Trustee & Founder Mem., Bhagwandas Todi Charitable Trust ; Wkg. Cttee. Mem., AIMO, DGS & D. Central Purchase Adv. Council, etc. *Address* : *Office* : Todi Estate, Bombay 400013 ; *Res.* : Vishwa Mahal, C Rd., Churchgate, Bombay 400020.

TULZAPURKAR, Vidyaranya Dattatraya, B.A., LL.B., Attorney-at-Law ; Judge, Supreme Court of India, since Sept. 30, 1977. Advocate, Bombay High Court. Dec. 1, 1942 ; Judge, City Civil Court and Addl. Sessions Judge, Bombay, July 16, 1956 ; Principal Judge, Apr. 19, 1962 ; Addl. Judge, Bombay High Court, Dec. 21, 1963 ; Permanent Judge, Sept. 22, 1966. *Address* : 11, Tughlak Rd., New Delhi 110011.

UNTWALIA, Mr. Justice Nand Lall, B.A., B.L., Judge, Supreme Court of India, since Oct. 1974. *b.* Aug. 1, 1915. Practised at Muzaffarpur, 1940–46 ; Patna High Court, Mar. 1947 to Jan. 1958 ; Addl. Judge, Patna High Court, Jan. 1958 to Sept. 1972. Ch. Justice, High Court, Patna, Sept. 1972–Oct. 1974. *Address* : 10, Tughlak Rd., New Delhi 110011.

URS, Devaraj D., B.Sc., Chief Minister, Karnataka State, since March 20, 1972 to Dec. 31, 1977 and again from Feb. 28, 1978. *b.* Aug. 20, 1915. Mem., Rep. Assembly, 1941–48 ; Took part in Quit India Movement, 1942 ; Participated in the Struggle for Responsible Govt. in Mysore, 1947 ; M.L.A. since 1952 from Hunsur constituency ; Min. for Labour, Transport & Tourism, Karnataka State, 1962–68 ; was Chmn., Central Silk Board ; Convener, K.P.C.C. ; became Congress (I) President in Karnataka on Jan. 12, 1978 when the Congress Split and led the party victory in the 1978 Assembly elections. *Address* : "Balla Broohie," High Ground, Bangalore 560001.

VAJPAYEE, Atal Bihari, M.A., M.P. (Lok Sabha), Minister for External Affairs, Govt. of India, since Mar. 26, 1977 ; Ex-President, Bharatiya Jan Sangh. Journalist. *b.* Dec. 25, 1926. Joined Arya Samaj in 1939 ; R.S.S., 1940 ; arrested in freedom movement, 1942 ; whole-time R.S.S. worker from 1947 ; joined Bharatiya Jan Sangh since its inception, 1951 ; Pres., Bharatiya Jan Sangh, 1968 ; elected to Lok Sabha from U.P., 1957 & 1967 ; Rajya Sabha, 1962 ; leader, Jan Sangh Parly. Party, 1957-75 ; detained, June 26, 1957 ; elected to Lok Sabha from N. Delhi, March, 1977 ; Mem. : National Integration Council, 1962 ; Parly Delegation to the Commonwealth Parly. Assn. meeting. held in Canada, 1966 ; Inter Parliamentary Cfce., Tokyo, 1975 ; Rly. Convention Cttee., 1971-72 ; Hindi Salahkar Samiti ; Chmn., Public Accounts Cttee., Lok Sabha, 1969-70 ; Assurance Cttee., 1967-68 ; *Editor* : *Swadesh*, daily, Lucknow, 1949 ; *Veer Arjun*, daily, Delhi, 1952-53 and some periodicals. *Address* : 7, Safdarjang Rd., New Delhi 110011.

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VYJAYANTHIMALA, Smt. Bali, Artiste. *b.* 13, 1933. Acted in films till 1969 & received Best Actress Awards for "Sadhana", "Ganga Jamuna" & "Sangam" exponent of Bharata Natyam & started 'Natyalaya'— academy of classical Bharata Natya & Music — Bom 1967 ; danced at the U.N. Gen. Assembly, Dec. 1969 undertook dance tour to Australia co-sponsored by the Dept. of Tourism, Govt. of India and Centre Trust, March 1975 ; danced in U.S.A., C (Royal Opera Ballet Festival), Stockholm, France, and Germany, 1977. *Address* : 131, Ashoka A Napean Sea Rd., Bombay 400006.

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WARRIER, P. Krishnan Kutty, Managing Trustee, Arya Vaidya Sala, Kottakkal, since 1953. *b.* 1921 at Kottakkal. Has been with the Arya Vaidya Sala since 1947 ; is its Addl. Chief Physician ; Mem., Exec. Cttee., All India Ayurvedic Congress ; Central Council of Indian Medicine ; Ayurvedic Adv. Bd., Kerala. *Address :* Arya Vaidya Sala, Kottakkal 676503 (Kerala State).

WINCKLER, H.E. Mr. Jean-Claude, Ambassador of France to India, since June 23, 1976. *b.* Dec. 8, 1913. Started diplomatic career with French Embassy, Spain, 1938 ; Tunis, 1939 ; served with the Free French Forces in N. Africa, Italy and France during the war ; Second Secy., Washington D.C., 1945–49 ; Consul, Venice, 1949–50 ; Counsellor, Rome, 1950–59 ; Washington D.C., 1959–63 ; Dy. Commander, French Military Govt. to Berlin, 1963–67 ; Charge d'Affaires in Morocco, 1967–70 ; Amb. to Denmark, 1970–72 ; Argentina, 1972–76. *Address :* Embassy of France, 2, Aurangzeb Rd., New Delhi 110011.

ZAIDI, Dr. Sibte Hasan, M.B.B.S., Ph.D. (Lond.), D.C.P. (Lond.), F.R.C. Path. (Lond.), F.N.A., F.N.A. Sci. ; Fellow : Royal Coll. of Pathologists, London; National Academy of Sci., India ; Indian National Sci. Academy, New Delhi ; Indian Academy of Medical Sciences. Founder-Dir., Industrial Toxicology Research Centre, Lucknow, since 1965. *b.* April 15, 1918. Asstt. Dir. & Head, Divn. of Exptl. Medicine, Central Drug Research Instt., Lucknow, 1955–63 ; its Dy. Dir., 1963 ; Dir., Indian Instt. of Biochemistry & Exptl. Medicine, Calcutta, 1964 ; Mem., Pathological Socy. of G. Britain & Ireland ; Indian Assn. of Pathologists WHO Expert Adv. Panel on Occptl. Health ; Pres. : Asian Soc. of Environmental and Indl. Toxicology (ASEIT); V. Pres., Scientific Adv. Cttee. of IRPTC organised by UNEP received : S. S. Bhatnagar Award, 1963 ; Sir Ardeshir Dalal Memorial Award, 1975. Presented "1977 Yant Award" by the American Indl. Hygiene Assn. ; Adviser, Ministry of Railways. *Address :* Industrial Toxicology Research Centre, P. Box No. 80, Lucknow 226001.

ZUTSHI, Moti Lal, B.A., (Gold Medallist), Chmn. & Mg. Dir., Hindustan Paper Corpn. Ltd., New Delhi ; Chmn. : Mandya National Paper Mills Ltd., Belagula (Karnataka) ; Devpt. Council for Paper, Pulp & Allied Ind. ; Supervisory Cttee. of Paper Ind. & Trade ; Vice-Chmn. & Mg. Dir., Nagaland Pulp & Paper Co. Ltd., Tuli (Nagaland) ; Dir., India Pulp Paper Co. Ltd., Calcutta ; Member, Adv. Cttee. on Pulp & Paper, FAO, Rome. *b.* July 11, 1918. *Address :* Hindustan Paper Corpn. Ltd., D-44, N.D.S.E, Part II, New Delhi 110049.

LATE PARTICULARS

Central Cabinet Changes

EFFECTIVE FROM JANUARY 24, 1979.

Dy. Prime Minister in charge of Finance, Charan Singh ; *Dy. Prime Minister holding Defence Portfolio,* Jagjivan Ram ; *Minister for Home Affairs,* H. M. Patel ; *Minister for Health and Family Welfare,* Rabi Ray.

Ministers of State (New) :

Ram Kinkar, *Works and Housing and Supply & Rehabilitation;* Jagbir Singh, *Information and Broadcasting; Other Changes:* Janeshwar Mishra is now *Minister of State for Energy;* Nar Singh Yadav, *Minister of State for Petroleum and Chemicals;* Fazlur Rahman, *Minister of State for Planning;* Jagadambi Prasad Yadav, *Minister of State for Industry.*

U.P. Cabinet Changes :

The Chief Minister, Mr. Ram Naresh Yadav, lost the vote of confidence on Feb. 15. A new leader was not elected till the time of publication.

Karnataka Cabinet : Minister of Animal Husbandry and Dairy Development, Mr. Devendrappa Ghalappa, resigned on January 19.

Bihar Governor : Governor of Bihar, Mr. Jagannath Kaushal resigned on January 29. Mr. K. B. N. Singh, Chief Justice, Patna High Court, was sworn-in as acting Governor on January 31.

Indian Ambassador: Maharaj Krishna Rasgotra, Ambassador to the Netherlands, has been appointed Ambassador to France on January 18.

Foreign Ambassador : Iranian Ambassador in India, Mr. Ghalam Reza Tajbaksh, said he was leaving India in the middle of February.

Miscellaneous:

R. N. Sharma, *Mg. Dir., Central Coalfields Ltd.,* has been appointed as *Chairman & Mg. Director of Coal India Ltd.* ; S. Venkatesan, *Chairman, Central Bd. of Excise* (in place of Jasjit Singh, who retired) ; A. K. Bandopadhyay (Addl. Secy., Revision Applications) has taken over as *Member, Central Board of Excise and Customs ;* D. N. Mehta has been promoted as *Addl. Secy.* (*Revision Applications*) ; S. S. Gill (*Jt. Secy., Shipping*) has been promoted *Secy. to the Backward Classes Commission.*

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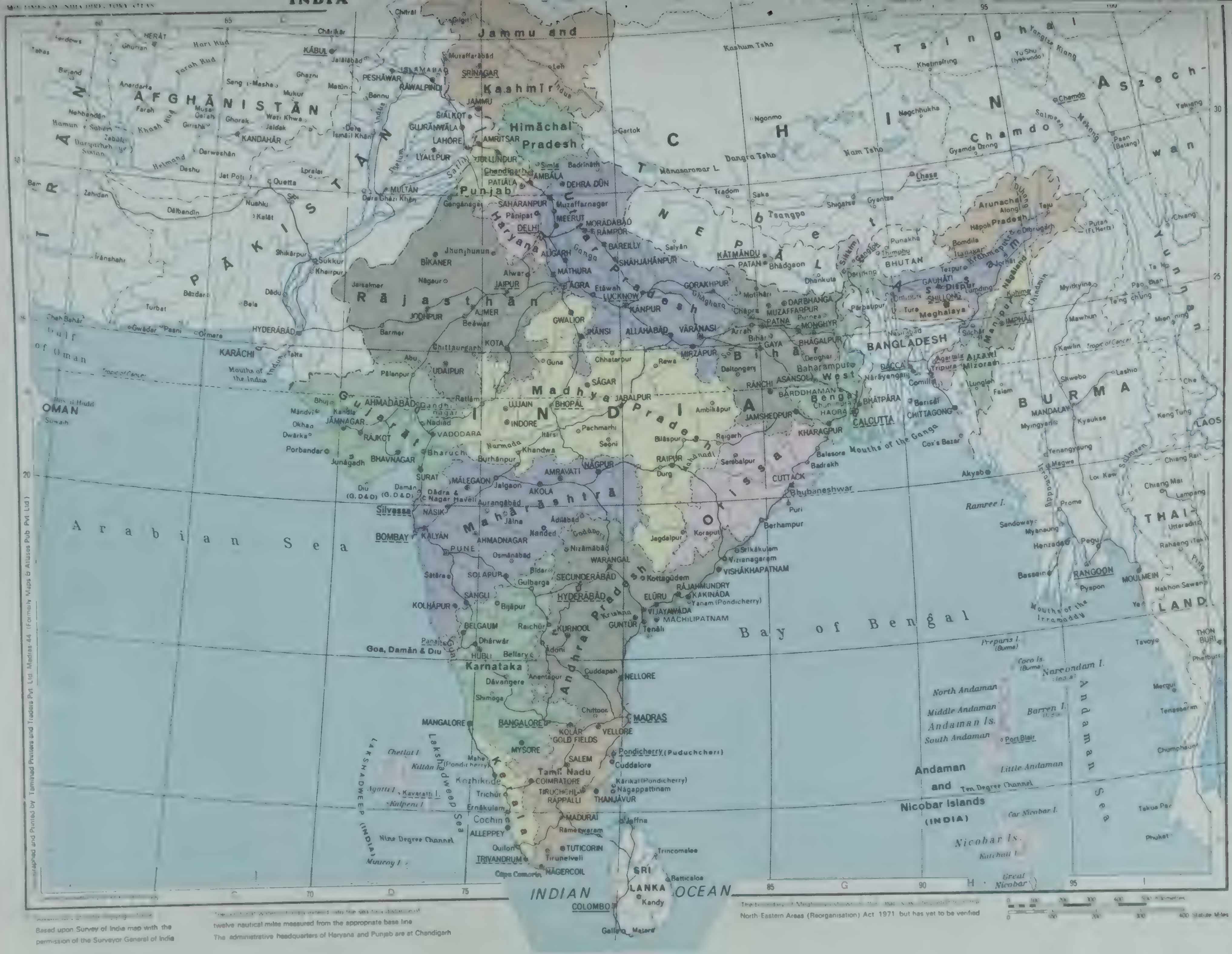
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AFGHĀNISTĀN
PĀKISTĀN
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Jammu and Kashmīr
Himāchal Pradesh
Punjab
Haryana
Rājasthān
Uttar Pradesh
Madhya Pradesh
Gujarāt
Mahārāshtra
Karnataka
Kerala
Tamil Nadu
Andhra Pradesh
Orissa
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Arabian Sea
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Andaman and Nicobar Islands (INDIA)
Goa, Damān & Diu
DELHI
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MADRAS
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DACCA
KARĀCHI
KĀBUL
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Tropic of Cancer
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twelve nautical miles measured from the appropriate base line

The administrative headquarters of Haryana and Punjab are at Chandigarh

North-Eastern Areas (Reorganisation) Act 1971 but has yet to be verified

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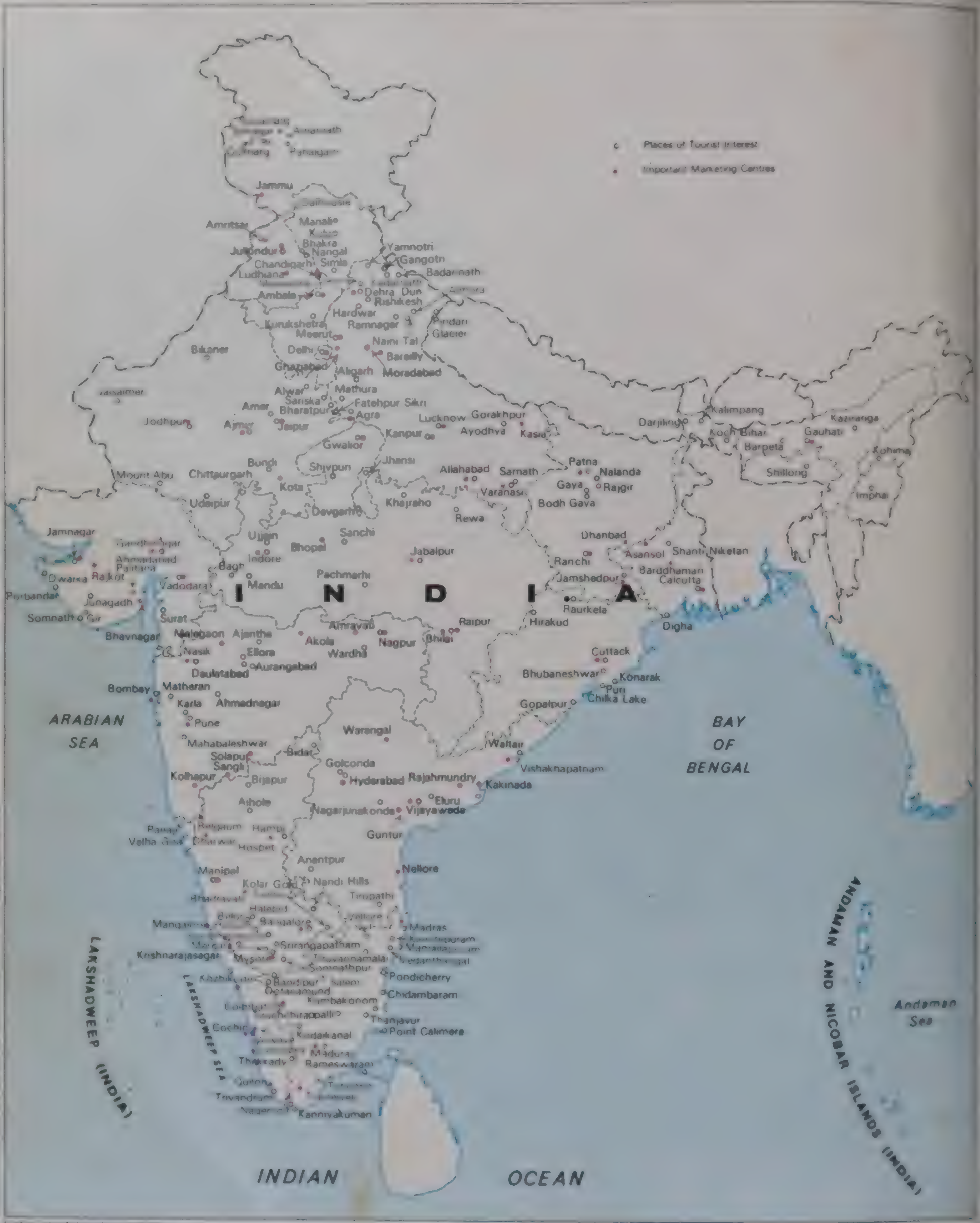
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Srinagar
Amarnath
Gulmarg
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Jammu
Dalhousie
Amritsar
Manali
Kulu
Bhakra
Nangal
Jullundur
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Simla
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Aligarh
Moradabad
Jaisalmer
Alwar
Sariska
Mathura
Amer
Bharatpur
Fatehpur Sikri
Jodhpur
Ajmer
Jaipur
Agra
Lucknow
Gorakhpur
Ayodhya
Kasia
Gwalior
Kanpur
Darjiling
Kalimpang
Koch Bihar
Barpeta
Gauhati
Kaziranga
Kohima
Shillong
Imphal
Bundi
Shivpuri
Jhansi
Allahabad
Sarnath
Patna
Nalanda
Mount Abu
Chittaurgarh
Kota
Varanasi
Gaya
Rajgir
Bodh Gaya
Udaipur
Devgarh
Khajraho
Rewa
Jamnagar
Gandhinagar
Ahmadabad
Ujjain
Sanchi
Dhanbad
Asansol
Shanti Niketan
Palitana
Bhopal
Jabalpur
Ranchi
Barddhaman
Dwarka
Rajkot
Bagh
Indore
Pachmarhi
Jamshedpur
Calcutta
Porbandar
Vadodara
Mandu
Junagadh
INDIA
Raurkela
Somnath
Gir
Surat
Amravati
Raipur
Hirakud
Digha
Bhavnagar
Malegaon
Ajanta
Akola
Bhilai
Nasik
Ellora
Nagpur
Wardha
Cuttack
Daulatabad
Aurangabad
Bhubaneshwar
Konarak
Puri
Bombay
Matheran
Chilka Lake
Karla
Ahmednagar
Gopalpur
ARABIAN SEA
Pune
BAY OF BENGAL
Warangal
Mahabaleshwar
Waltair
Solapur
Bidar
Sangli
Golconda
Vishakhapatnam
Kolhapur
Bijapur
Hyderabad
Rajahmundry
Kakinada
Aihole
Eluru
Nagarjunakonda
Vijayawada
Panaji
Belgaum
Hampi
Velha Goa
Dharwar
Guntur
Hospet
Anantpur
Manipal
Nellore
Kolar Gold
Nandi Hills
Bhadravati
Tirupathi
Halebid
Belur
Vellore
Mangalore
Bangalore
Madras
Kanchipuram
Mercara
Srirangapatnam
Mamallapuram
Krishnarajasagar
Mysore
Tiruvannamalai
Vedanthangal
Somnathpur
Pondicherry
Kozhikode
Bandipur
Salem
Ootacamund
Chidambaram
Coimbatore
Kumbakonam
Tiruchirappalli
Thanjavur
Cochin
Point Calimere
Kodaikanal
Madurai
Thekkady
Rameswaram
Quilon
Trivandrum
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LAKSHADWEEP (INDIA)
LAKSHADWEEP SEA
ANDAMAN AND NICOBAR ISLANDS (INDIA)
Andaman Sea
INDIAN
OCEAN

Lambert azimuthal equal area projection

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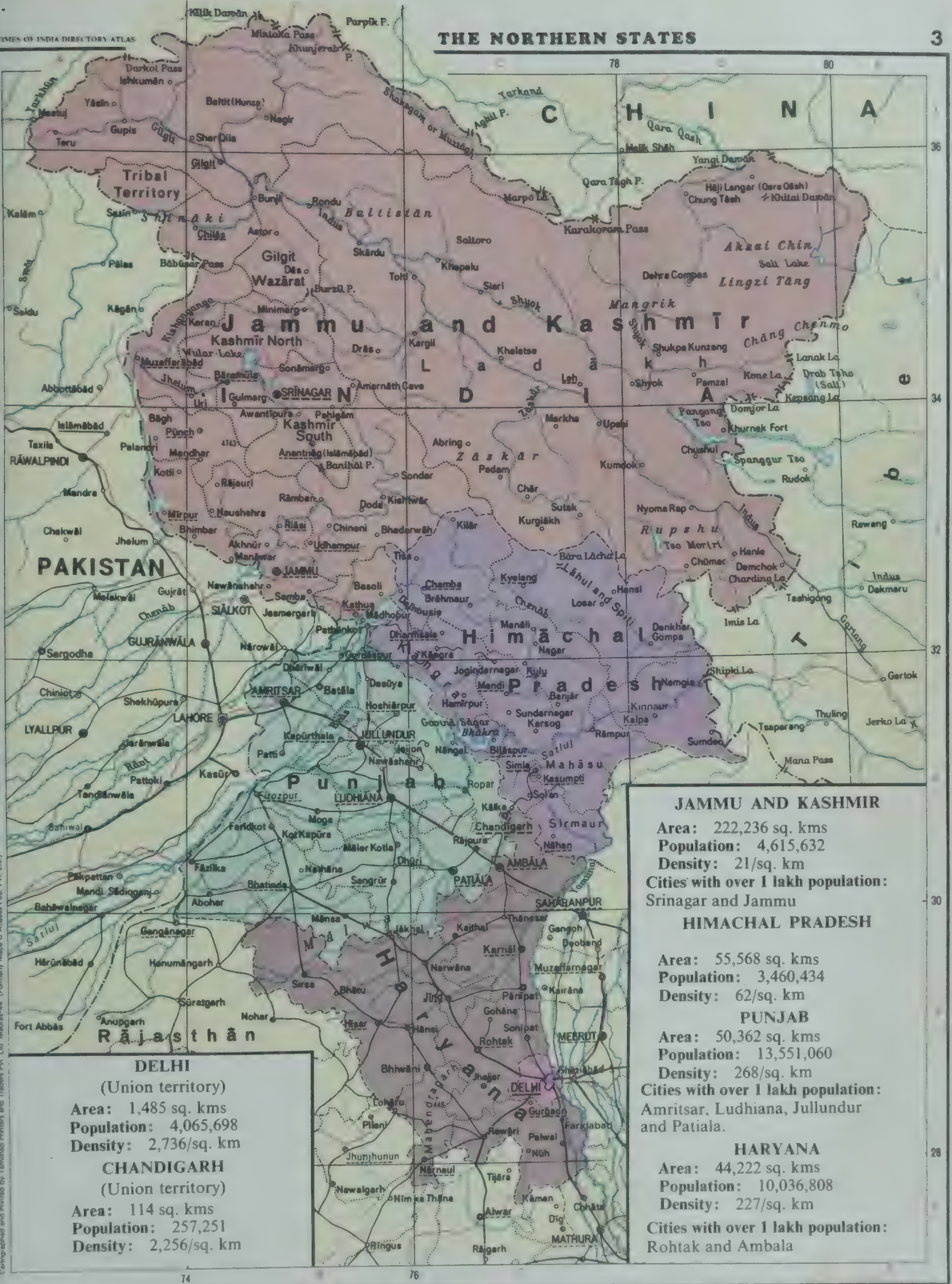
The territorial waters of India extend into the sea to a distance of twelve nautical miles measured from the appropriate base line

THE NORTHERN STATES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Jammu and Kashmīr
Ladākh
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Himāchal Pradesh
Punjab
Haryana
Rājasthān
PAKISTAN
Tibet
Kilik Davān
Parpik P.
Mintaka Pass
Khunjerab P.
Darkot Pass
Ishkumān
Yārkhūn
Mastuj
Yāsin
Baltit (Hunza)
Nagir
Gupis
Gilgit
Sher Qila
Teru
Tribal Territory
Shākesgam or Muztāgh
Aghil P.
Yarkand
Qara Qash
Malik Shāh
Yangi Davān
Qara Tāgh P.
Hāji Langar (Qara Qāsh)
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Skārdu
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Salt Lake
Lingzi Tāng
Pālas
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Dās
Tolti
Khapalu
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Shyok
Mangrik
Saidu
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Minimarg
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Keran
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Wular Lake
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Bāramūla
Drās
Kargil
Sonāmarg
Khaletse
Shukpa Kunzang
Chāng Chenmo
Lanak La
Kone La
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Abbottābād
Jhelum
Uri
Gulmarg
SRĪNAGAR
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Leh
Shyok
Pamzal
Kepsang La
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Pahlgām
Kashmīr South
Markha
Zāskār
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Udhampur
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Jasmergarh
Kathua
Dalhousie
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Pathānkot
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Gartok
Dhāriwāl
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Batāla
Dasūya
Mandi
Banjār
Nemgia
Shekhūpura
Hoshiārpur
Hamīrpur
Kinnaur
LAHORE
Sundarnagar
Karsog
Kalpa
Thuling
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Kapūrthala
JULLUNDUR
Gobind Sāgar
Bhākra
Rāmpur
Tsaparang
Jerko La
Jarānwāla
Beās
Jaijon
Nāngal
Bilāspur
Sumdeo
Rāvi
Patti
Nawāshahr
Satluj
Simla
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Kasumpti
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Farīdkot
Kot Kapūra
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Sirmaur
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Rājpura
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Bhiwāni
Jhajjar
Ghaziabād
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Nūh
Jhunjhunun
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Nīm ka Thāna
Kāman
Chhāta
Alwar
Dīg
MATHURA
Ringus
Rājgarh
74
76
78
80
36
34
32
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28

JAMMU AND KASHMIR

Area: 222,236 sq. kms
Population: 4,615,632
Density: 21/sq. km
Cities with over 1 lakh population:
Srinagar and Jammu

HIMACHAL PRADESH

Area: 55,568 sq. kms
Population: 3,460,434
Density: 62/sq. km

PUNJAB

Area: 50,362 sq. kms
Population: 13,551,060
Density: 268/sq. km
Cities with over 1 lakh population:
Amritsar, Ludhiana, Jullundur and Patiala.

HARYANA

Area: 44,222 sq. kms
Population: 10,036,808
Density: 227/sq. km

Cities with over 1 lakh population:
Rohtak and Ambala

DELHI
(Union territory)
Area: 1,485 sq. kms
Population: 4,065,698
Density: 2,736/sq. km

CHANDIGARH
(Union territory)
Area: 114 sq. kms
Population: 257,251
Density: 2,256/sq. km

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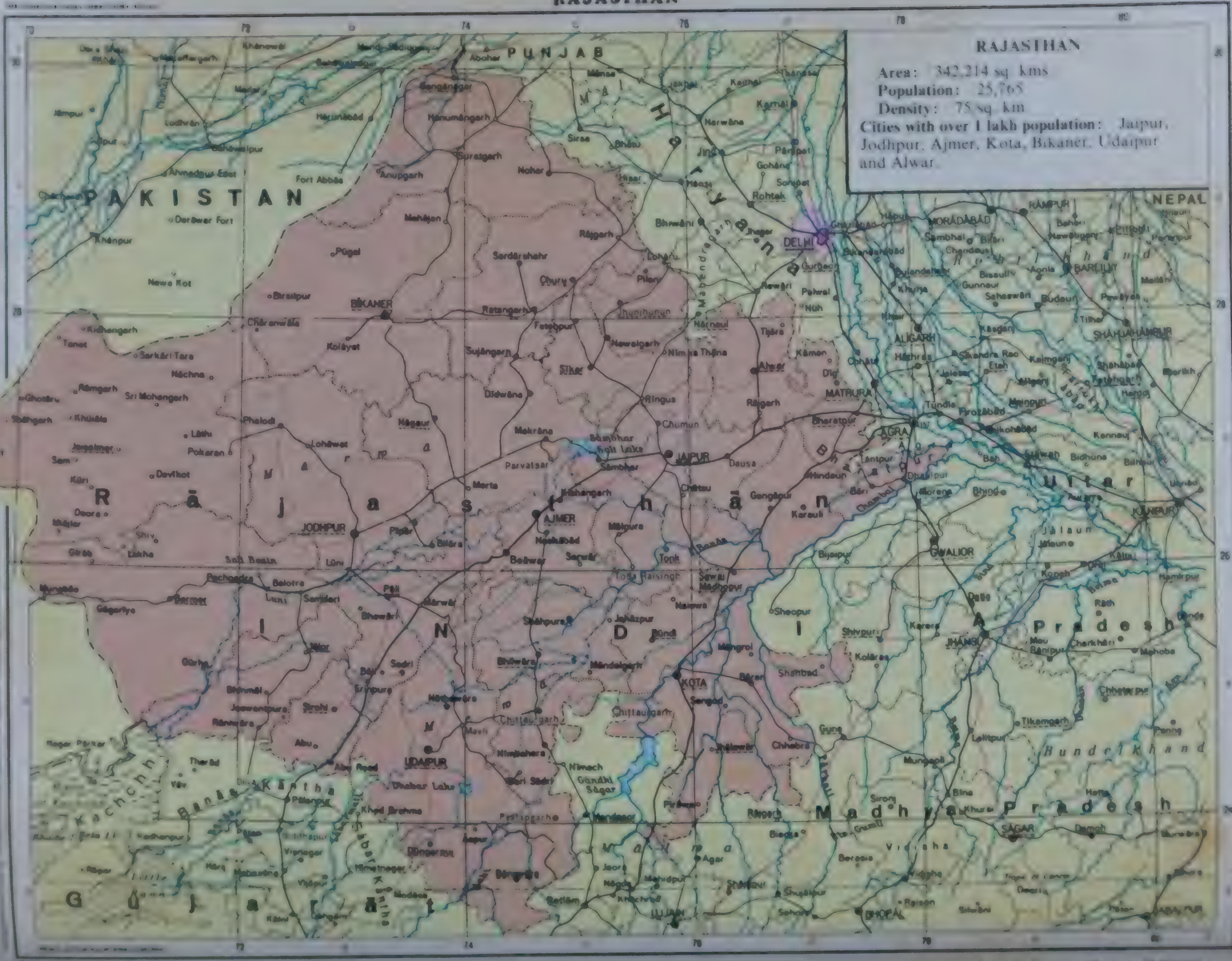
The administrative headquarters of Haryana and Punjab are at Chandigarh

0 50 100 150 Kilometres
0 50 100 Statute Miles

RAJASTHAN



RAJASTHAN

Area: 342,214 sq kms
Population: 25,765
Density: 75 sq km
Cities with over 1 lakh population: Jaipur, Jodhpur, Ajmer, Kota, Bikaner, Udaipur and Alwar.

PAKISTAN
PUNJAB
Haryana
NEPAL
Uttar Pradesh
Madhya Pradesh
Gujarat
Rājasthān
INDIA
DELHI
JAIPUR
JODHPUR
AJMER
BIKANER
KOTA
UDAIPUR
AGRA
MATHURA
ALIGARH
GWALIOR
JHANSI
MORADABAD
BAREILLY
SHAHJAHANPUR
KANPUR
SAGAR
BHOPAL
UJJAIN
RAMPUR
Ganganagar
Hanumangarh
Suratgarh
Anupgarh
Nohar
Rajgarh
Sardarshahr
Churu
Ratangarh
Fatehpur
Jhunjhunun
Sikar
Sujangarh
Didwana
Nagaur
Makrana
Merta
Parvatsar
Sambhar Salt Lake
Kishangarh
Beawar
Nasirabad
Tonk
Sawai Madhopur
Bundi
Bhilwara
Chittaurgarh
Shahpura
Mandalgarh
Jhalawar
Alwar
Bharatpur
Dholpur
Karauli
Hindaun
Dausa
Chomun
Ringus
Nim ka Thana
Narnaul
Pilani
Loharu
Jaisalmer
Pokaran
Phalodi
Barmer
Balotra
Pali
Jalor
Sirohi
Abu
Abu Road
Bhinmal
Dungarpur
Banswara
Nathdwara
Kankroli
Kolayat
Pugal
Khajuwala
Mahajan
Bhiwani
Rohtak
Hisar
Jind
Sirsa
Panipat
Karnal
Gurgaon
Rewari
Nimach
Gandhi Sagar
Mandasor
Ratlam
Shivpuri
Guna
Sheopur
Bundelkhand
Kachchh
Banas Kantha
Sabar Kantha
Mahendragarh
Chambal
Banas
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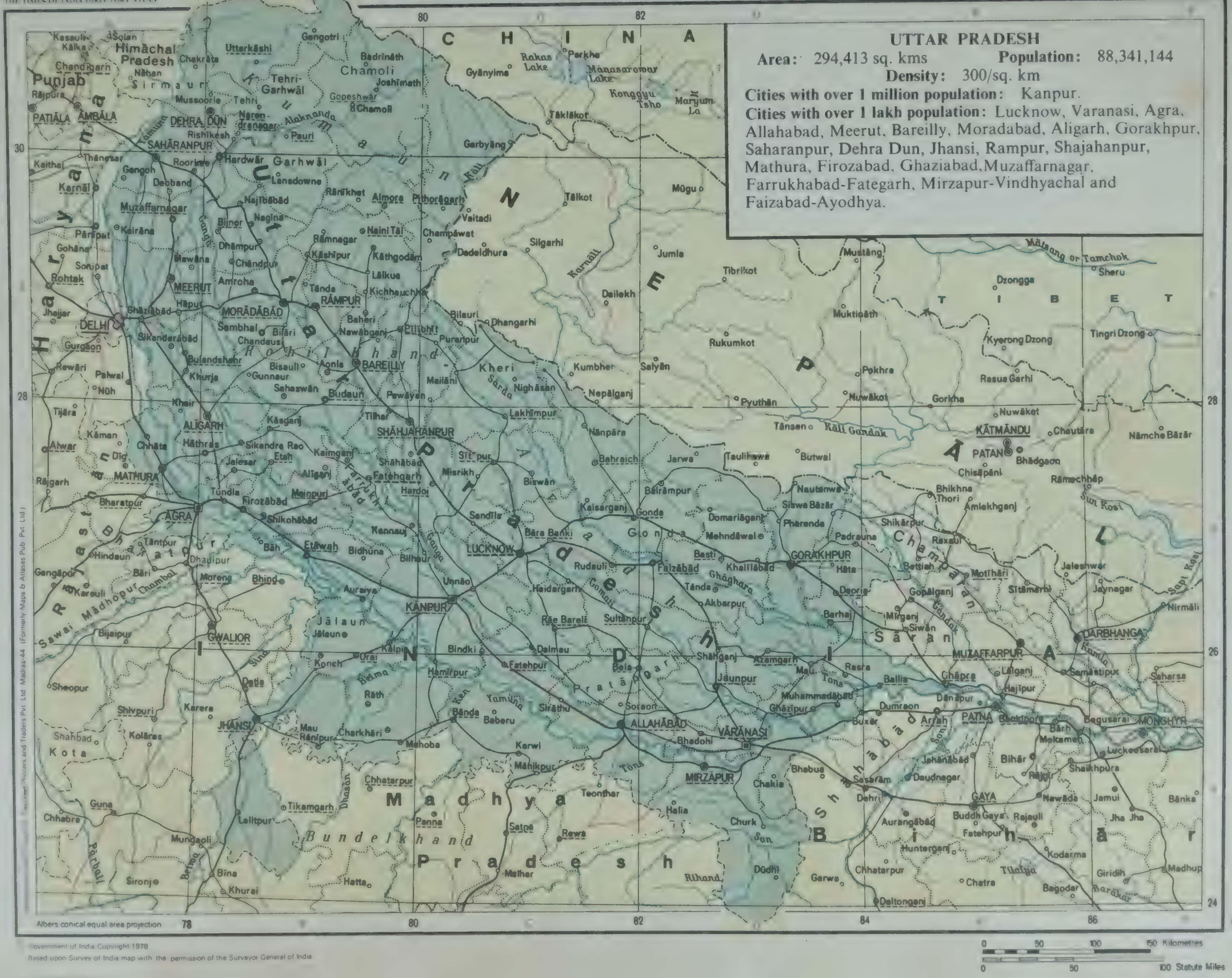
UTTAR PRADESH



C H I N A
T I B E T
N E P Ā L
Himāchal Pradesh
Punjab
H a r y ā n a
R ā j a s t h ā n
M a d h y a P r a d e s h
B i h ā r
U t t a r P r a d e s h
Garhwāl
Rohilkhand
Bundelkhand
Jālaun
Gonda
Champāran
Sāran
Shāhābād
Kheri
Kota
Sirmaur
DEHRA DUN
SAHĀRANPUR
Hardwār
Rishikesh
Roorkee
Muzaffarnagar
MEERUT
Ghāziābād
DELHI
MORĀDĀBĀD
RĀMPUR
BAREILLY
Pilibhit
Budaun
ALIGARH
MATHURA
AGRA
Firozābād
Etāwah
Mainpuri
Fatehgarh
SHĀHJAHĀNPUR
Hardoi
Sītāpur
LUCKNOW
Unnāo
KANPUR
Bāra Banki
Rae Bareli
Sultānpur
Faizābād
Basti
GORAKHPUR
Jaunpur
Āzamgarh
Ghāzipur
Ballia
ALLAHĀBĀD
VĀRĀNASI
MIRZĀPUR
Bānda
Hamīrpur
Orai
JHĀNSI
Lalitpur
Almora
Naini Tāl
Pithorāgarh
Chamoli
Uttarkāshi
Tehri-Garhwāl
Pauri
Kāthgodām
Lakhīmpur
Bahraich
Gonda
Bijnor
Deoria
Fatehpur
GWALIOR
Bhind
Datia
Chhatarpur
Tikamgarh
Rewa
Satna
KĀTMĀNDU
PATAN
Bhādgaon
PATNA
GAYA
MUZAFFARPUR
DARBHANGA
MONGHYR
Chāpra
Arrah
Sasarām
Dehri
Bhabua
Daltonganj
Manasarowar Lake
Rakas Lake
Ganga
Yamuna
Ghāghara
Gomati
Kali
Sārda
Chambal
Betwa
Son
Tons
Gandak
Kosi
Rihand
Dhasan
Ken
Ramganga
Kamāli
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0 50 100 150 Kilometres
0 50 100 Statute Miles

Albers conical equal area projection

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UTTAR PRADESH

Area: 294,413 sq. kms **Population:** 88,341,144

Density: 300/sq. km

Cities with over 1 million population: Kanpur.

Cities with over 1 lakh population: Lucknow, Varanasi, Agra, Allahabad, Meerut, Bareilly, Moradabad, Aligarh, Gorakhpur, Saharanpur, Dehra Dun, Jhansi, Rampur, Shajahanpur, Mathura, Firozabad, Ghaziabad, Muzaffarnagar, Farrukhabad-Fategarh, Mirzapur-Vindhyachal and Faizabad-Ayodhya.

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BIHAR

Area: 173,876 sq. kms **Population:** 56,353,369

Density: 326/sq. km

Cities with over 1 lakh population: Patna, Jamshedpur, Gaya, Ranchi, Bhagalpur, Darbhanga, Muzaffarpur, Monghyr and Bihar.

WEST BENGAL

Area: 87,853 sq. kms **Density:** 504/sq. km

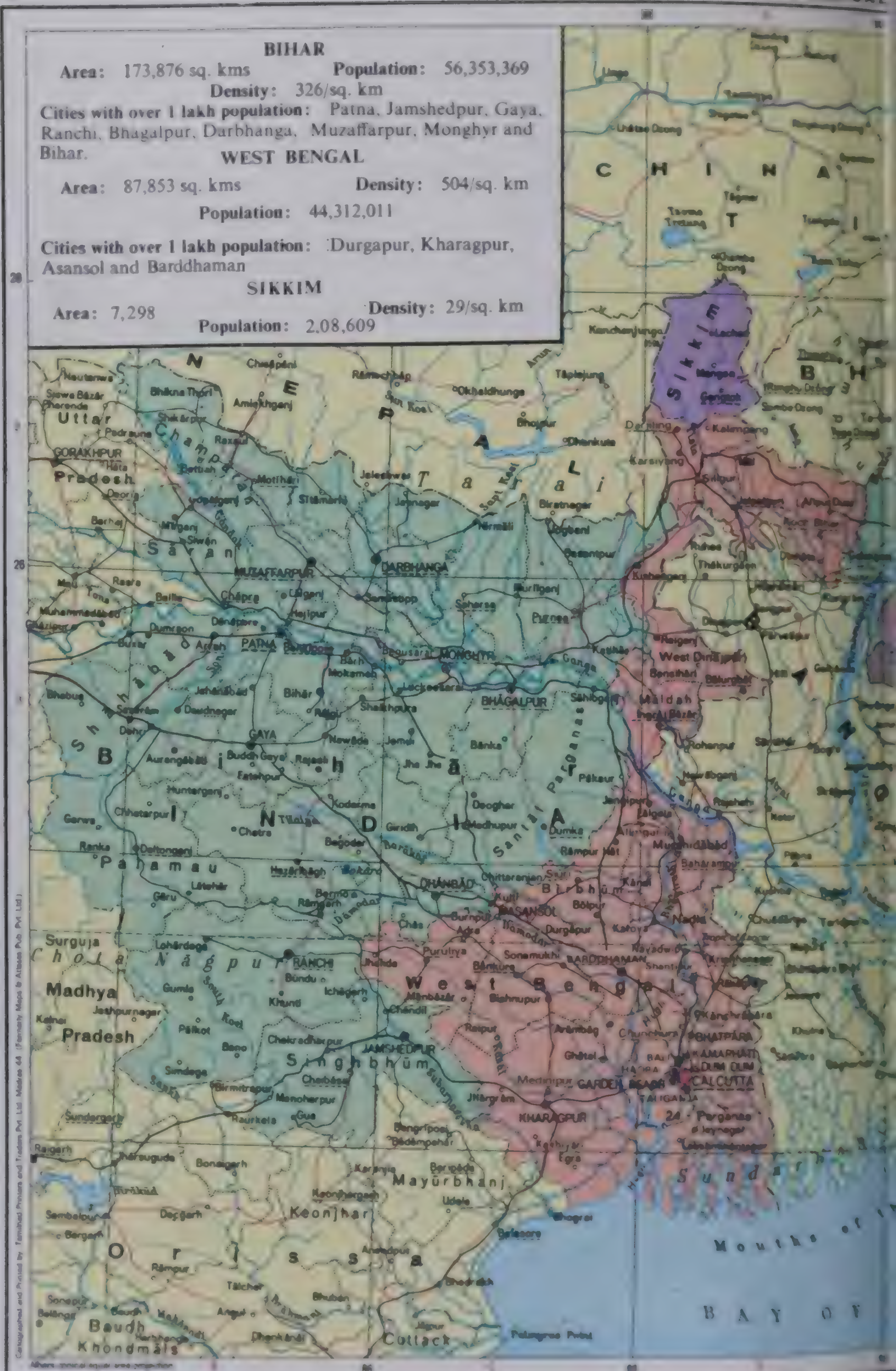
Population: 44,312,011

Cities with over 1 lakh population: Durgapur, Kharagpur, Asansol and Barddhaman

SIKKIM

Area: 7,298 **Density:** 29/sq. km

Population: 2,08,609


CHINA
Tibet
Sikkim
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Gangtok
Kanchenjunga
Darjiling
Kalimpong
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NEPAL
Tarai
Arun
Sun Kosi
Okhaldhunga
Bhojpur
Dhankuta
Taplejung
Biratnagar
Jogbani
Janakpur
Jaleswar
Nautanwa
Uttar Pradesh
GORAKHPUR
Deoria
Champaran
Bettiah
Motihari
Raxaul
Sitamarhi
Saran
Siwan
Gandak
MUZAFFARPUR
DARBHANGA
Samastipur
Chapra
Hajipur
Ballia
Ghazipur
Buxar
Dumraon
Arrah
PATNA
Danapur
Barh
Mokameh
Begusarai
MONGHYR
Lakhisarai
BHAGALPUR
Sahibganj
Purnea
Katihar
Kishanganj
Forbesganj
Saharsa
Shahabad
Sasaram
Dehri
Bhabua
Jehanabad
Bihar
Rajgir
Nawada
GAYA
Buddh Gaya
Aurangabad
Daudnagar
Bihar
Son
Jamui
Banka
Sheikhpura
Santal Parganas
Deoghar
Dumka
Pakaur
Madhupur
Giridih
Kodarma
Hazaribagh
Bokaro
Barakar
Chittaranjan
DHANBAD
ASANSOL
Palamau
Daltonganj
Latehar
Garhwa
Chhatarpur
Chatra
Surguja
Chota Nagpur
RANCHI
Lohardaga
Gumla
Khunti
Bundu
South Koel
Ichagarh
Chandil
Singhbhum
JAMSHEDPUR
Chaibasa
Chakradharpur
Manoharpur
Simdega
Sankh
Rourkela
Sundargarh
Madhya Pradesh
Jashpurnagar
Raigarh
Jharsuguda
Sambalpur
Bargarh
Bonaigarh
Deogarh
Orissa
Rampur
Talcher
Angul
Brahmani
Mahanadi
Dhenkanal
Baudh
Khondmals
Sonepur
Bolangir
Keonjhar
Keonjhargarh
Anandpur
Mayurbhanj
Baripada
Udala
Balasore
Bhadrakh
Jajpur
Cuttack
Palmyras Point
West Bengal
Purulia
Jhalida
Bankura
Manbazar
Bishnupur
Raipur
Kangsabati
Sonamukhi
BARDDHAMAN
Durgapur
Damodar
Birbhum
Suri
Bolpur
Katwa
Rampur Hat
Murshidabad
Baharampur
Jangipur
Maldah
English Bazar
West Dinajpur
Balurghat
Raiganj
Jalpaiguri
Siliguri
Kurseong
Cooch Behar
Nadia
Krishnanagar
Ranaghat
Hugli
Chinsura
Arambagh
Ghatal
Medinipur
Jhargram
KHARAGPUR
Contai
Egra
Bhograi
HAORA
GARDEN REACH
CALCUTTA
BHATPARA
KAMARHATI
DUM DUM
24 Parganas
Sundarbans
Ganga
Mouths of the
BAY OF
Albers conical equal area projection
26
24
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88

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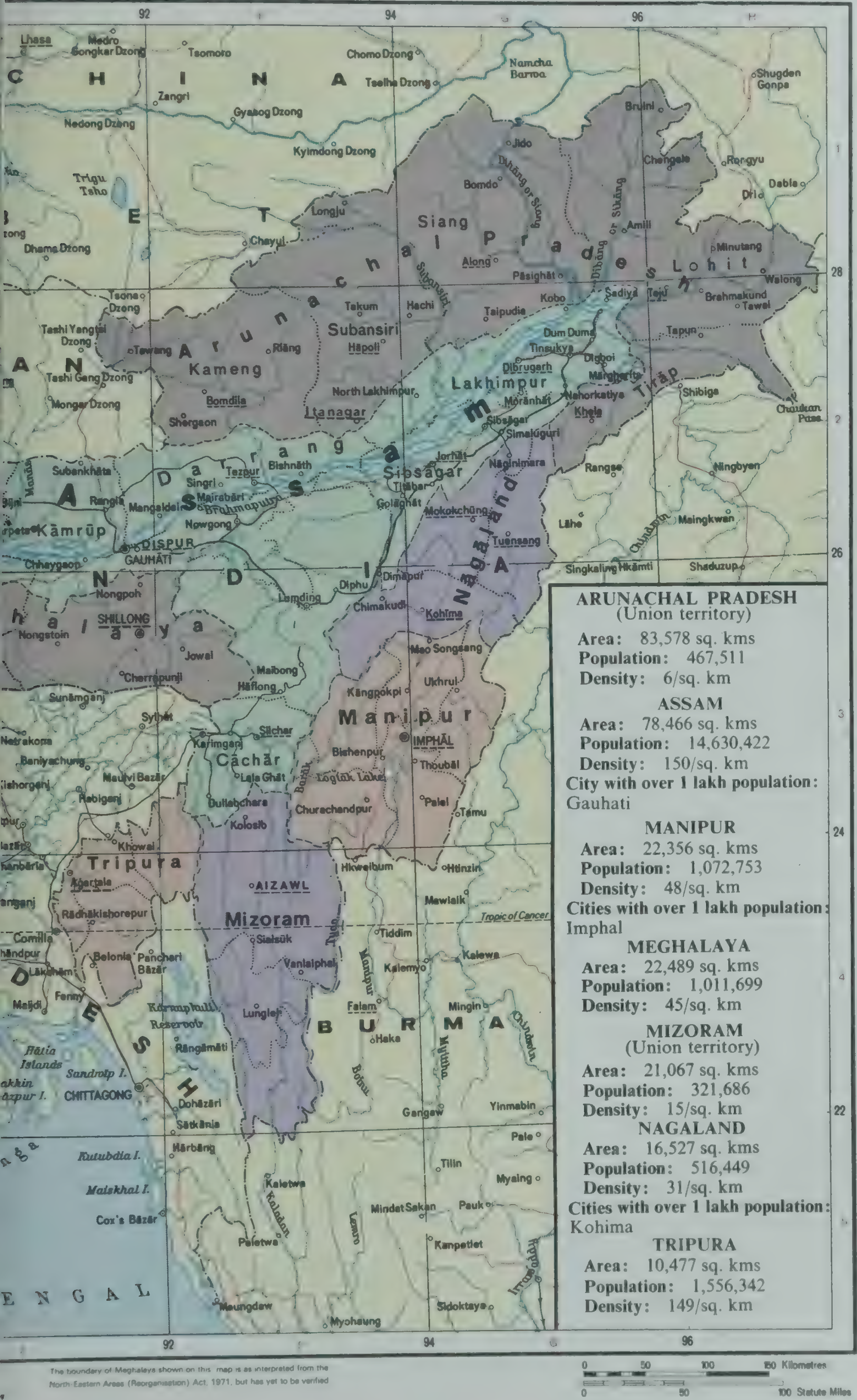
C H I N A
T I B E T
Lhasa
Medro Gongkar Dzong
Tsomoro
Chomo Dzong
Namcha Barwa
Tselha Dzong
Shugden Gonpa
Zangri
Gyatsog Dzong
Nedong Dzong
Kyimdong Dzong
Bruini
Jido
Chengele
Rongyu
Dabla
Dri
Trigu Tsho
Bomdo
Dihang or Siang
Longju
Siang
Amili
Sikang
Chayul
Dhama Dzong
Minutang
Arunachal Pradesh
Lohit
Along
Pasighat
Dibang
Walong
Tsona Dzong
Takum
Hachi
Subansiri
Taipudia
Kobo
Sadiya
Teju
Brahmakund
Tawai
Tashi Yangtsi Dzong
Tawang
Riang
Kameng
Hapoli
Dum Duma
Tinsukya
Tapun
Tashi Gang Dzong
Digboi
Dibrugarh
Margherita
Tirap
Shibiga
Monger Dzong
Bomdila
North Lakhimpur
Lakhimpur
Moranhat
Naharkatiya
Khela
Chaukan Pass
Shergaon
Itanagar
Sibsagar
Simaluguri
Darrang
Jorhat
Naginimara
Rangse
Ningbyen
Subankhata
Tezpur
Bishnath
Singri
Titabar
Manas
Rangia
Mangaldai
Mairabari
Brahmaputra
Golaghat
Mokokchung
Lahe
Maingkwan
Chindwin
Kamrup
Nowgong
Tuensang
DISPUR
GAUHATI
ASSAM
Chhaygaon
Singkaling Hkamti
Shadazup
Nagaland
Dimapur
Nongpoh
Lumding
Diphu
Meghalaya
SHILLONG
Chimakudi
Kohima
Nongstoin
Jowai
Mao Songsang
Maibong
Cherrapunji
Haflong
Kangpokpi
Ukhrul
Sunamganj
Sylhet
Manipur
Silchar
IMPHAL
Netrakona
Karimganj
Bishenpur
Cachar
Baniyachung
Thoubal
Lala Ghat
Loktak Lake
Maulvi Bazar
Barak
Habiganj
Dullabchara
Palel
Churachandpur
Tamu
Kolasib
Khowai
Tripura
Hkweibum
Htinzin
AIZAWL
Agartala
Mawlaik
Radhakishorepur
Mizoram
Tropic of Cancer
Comilla
Sialsuk
Tiddim
Tuipui
Belonia
Panchari Bazar
Kalewa
Lakshmam
Vanlaiphai
Manipur
Kalemyo
Feni
Maijdi
Karnaphuli Reservoir
Falam
Mingin
Lunglei
B U R M A
Chindwin
Haka
Myittha
Rangamati
Hatia Islands
Sandwip I.
CHITTAGONG
Bonu
Dohazari
Gangaw
Yinmabin
Satkania
B A N G L A D E S H
Harbang
Pale
Kutubdia I.
Tilin
Maiskhal I.
Kaletwa
Myaing
Mindat Sakan
Pauk
Cox's Bazar
Kaladan
Lemro
Paletwa
Kanpetlet
Irrawaddy
E N G A L
Maungdaw
Sidoktaya
Myohaung
92
94
96
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22
0 50 100 150 Kilometres
0 50 100 Statute Miles

ARUNACHAL PRADESH
(Union territory)

Area: 83,578 sq. kms
Population: 467,511
Density: 6/sq. km

ASSAM

Area: 78,466 sq. kms
Population: 14,630,422
Density: 150/sq. km
City with over 1 lakh population:
Gauhati

MANIPUR

Area: 22,356 sq. kms
Population: 1,072,753
Density: 48/sq. km
Cities with over 1 lakh population:
Imphal

MEGHALAYA

Area: 22,489 sq. kms
Population: 1,011,699
Density: 45/sq. km

MIZORAM
(Union territory)

Area: 21,067 sq. kms
Population: 321,686
Density: 15/sq. km

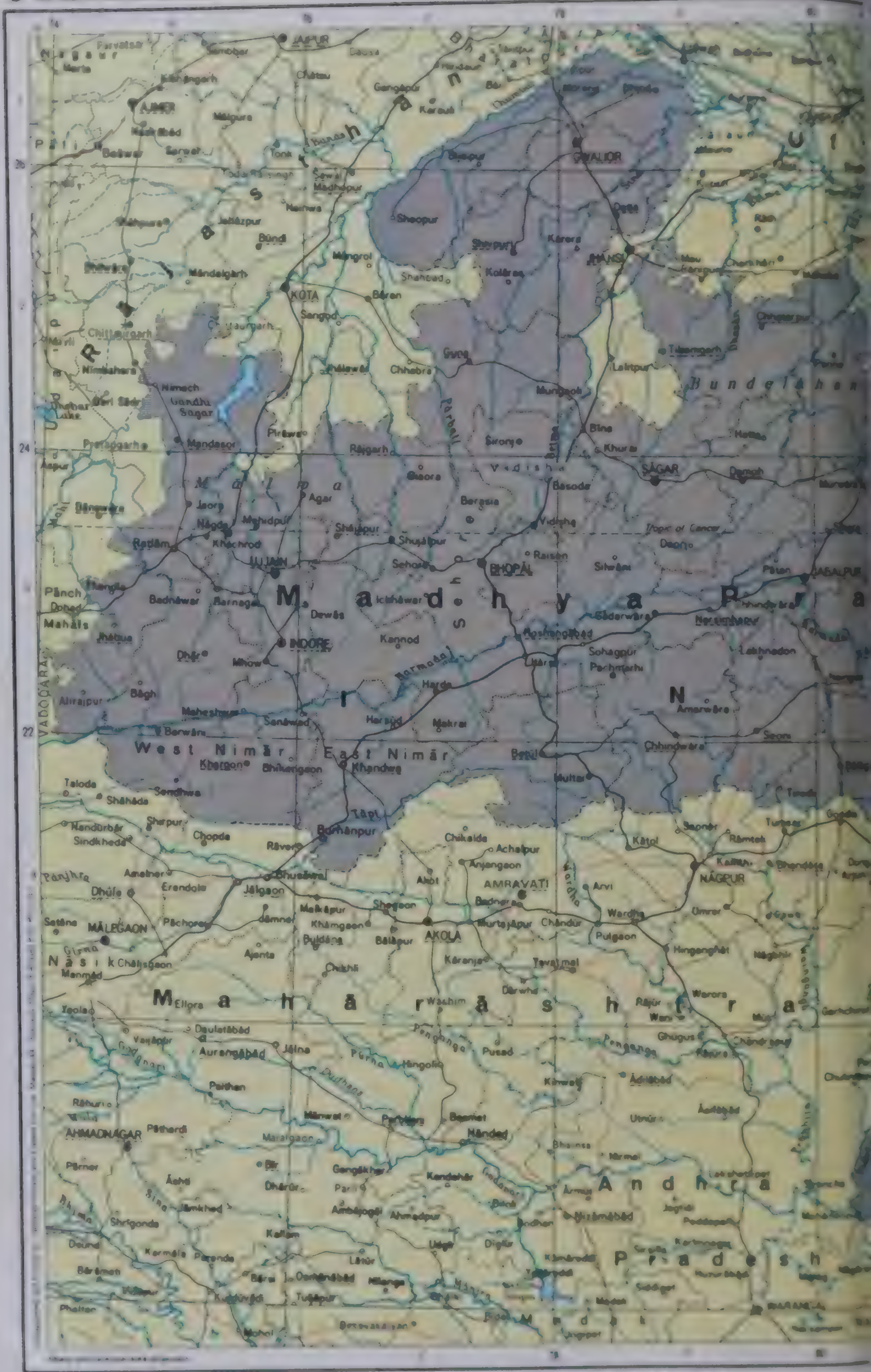
NAGALAND

Area: 16,527 sq. kms
Population: 516,449
Density: 31/sq. km
Cities with over 1 lakh population:
Kohima

TRIPURA

Area: 10,477 sq. kms
Population: 1,556,342
Density: 149/sq. km

The boundary of Meghalaya shown on this map is as interpreted from the North-Eastern Areas (Reorganisation) Act, 1971, but has yet to be verified



JAIPUR
AJMER
Nasirabad
Beawar
Pali
Tonk
Sawai Madhopur
Bundi
KOTA
Mandalgarh
Chittaurgarh
Nimbahera
Nimach
Gandhi Sagar
Mandasor
Pratapgarh
Banswara
Ratlam
Jaora
Nagda
Mehidpur
UJJAIN
Agar
Shajapur
Shujalpur
Sehore
BHOPAL
Raisen
Vidisha
Basoda
Sironj
Guna
Shivpuri
Kolaras
Sheopur
GWALIOR
Datia
JHANSI
Karera
Lalitpur
Tikamgarh
Chhatarpur
Bina
Khurai
SAGAR
Damoh
Bundelkhand
Malwa
Rajgarh
Biaora
Pirawa
Jhalawar
Chhabra
Baran
Mangrol
Shahabad
Madhya Pradesh
Dewas
INDORE
Mhow
Dhar
Badnawar
Barnagar
Jhabua
Alirajpur
Bagh
Maheshwar
Barwani
Sanawad
Kannod
Harda
Harsud
Makrai
Hoshangabad
Itarsi
Sohagpur
Pachmarhi
Sadarwara
Narsimhapur
Lakhnadon
Amarwara
Chhindwara
Seoni
Betul
Multai
Khandwa
Khargon
Bhikangaon
West Nimar
East Nimar
Burhanpur
Tapti
Narmada
Panch Mahals
Dohad
VADODARA
Sendhwa
Shahada
Taloda
Nandurbar
Sindkheda
Shirpur
Chopda
Raver
Bhusawal
Jalgaon
Dhule
Amalner
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MALEGAON
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Manmad
Chalisgaon
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Ellora
Maharashtra
Yeola
Vaijapur
Daulatabad
Aurangabad
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AHMADNAGAR
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Jamkhed
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Ambajogai
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Balapur
AKOLA
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Kinwat
Adilabad
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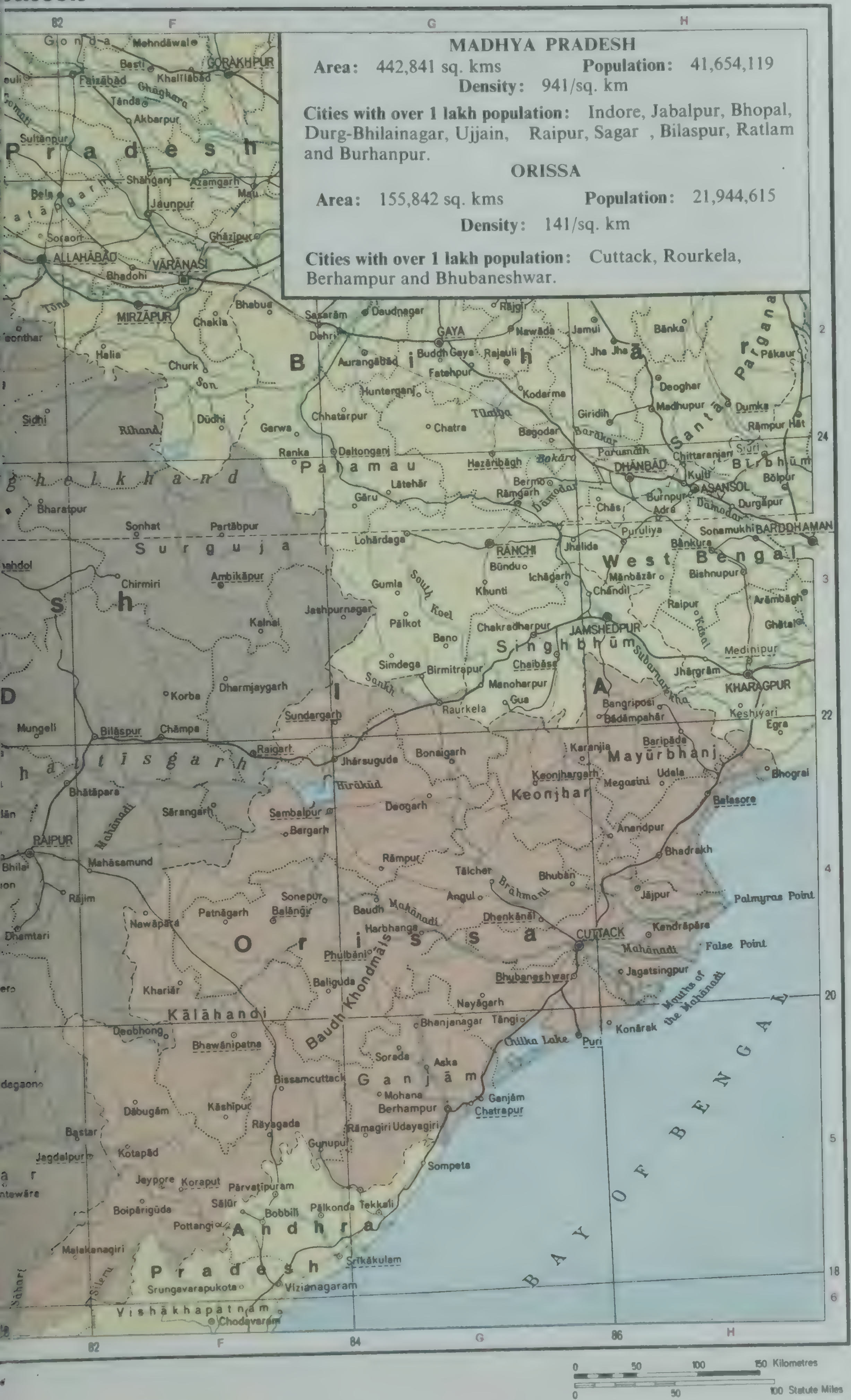
Ramtek
Umrer
Hinganghat
Warora
Rajura
Ghugus
Chandrapur
Nirmal
Nizamabad
Andhra Pradesh
Bodhan
Kamareddi
Medak
Penganga
Wainganga
Tropic of Cancer
Uttar Pradesh



MADHYA PRADESH

Area: 442,841 sq. kms **Population:** 41,654,119
Density: 941/sq. km

Cities with over 1 lakh population: Indore, Jabalpur, Bhopal, Durg-Bhilainagar, Ujjain, Raipur, Sagar , Bilaspur, Ratlam and Burhanpur.

ORISSA

Area: 155,842 sq. kms **Population:** 21,944,615
Density: 141/sq. km

Cities with over 1 lakh population: Cuttack, Rourkela, Berhampur and Bhubaneshwar.

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Mehndāwal
Basti
GORAKHPUR
Faizābād
Khalīlābād
Ghāghara
Tānda
Akbarpur
Sultānpur
Pradesh
Shāhganj
Āzamgarh
Mau
Bela
Jaunpur
Sorāon
Ghāzipur
ALLAHĀBĀD
VĀRĀNASI
Bhadohi
Tons
MIRZĀPUR
Chakia
Bhabua
Sasarām
Daudnagar
Rājgir
Dehri
GAYA
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Santal Pargana
Pākaur
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Hunterganj
Kodarma
Deoghar
Dumka
Sidhi
Dūdhi
Chhatarpur
Tilaiya
Giridih
Madhupur
Rihand
Garwa
Chatra
Bagodar
Barākar
Rāmpur Hāt
Ranka
Daltonganj
Pārasnāth
Siuri
Palāmau
Hazārībāgh
Bokāro
DHANBĀD
Chittaranjan
Bīrbhūm
Baghelkhand
Lātehār
Bermo
Rāmgarh
Dāmodar
Kulti
ASANSOL
Bolpur
Gāru
Chās
Burnpur
Ādra
Dāmodar
Durgāpur
Bharatpur
Sonhat
Partābpur
Puruliya
Sonamukhi
BARDDHAMAN
Surguja
Lohārdaga
RĀNCHI
Jhālida
Bānkura
Shahdol
Bundu
West Bengal
Chirmiri
Ambikāpur
Gumla
South Koel
Ichāgarh
Mānbāzār
Bishnupur
Khunti
Chāndil
Ārāmbāgh
Raipur
Jashpurnagar
Kasai
Ghātāl
Kalnai
Pālkot
Chakradharpur
JAMSHEDPUR
Bano
Singhbhūm
Medinipur
Simdega
Chaibāsa
Subarnarekha
Jhārgrām
Birmitrapur
Sankh
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Baripāda
Raigarh
Mayūrbhanj
Jhārsuguda
Bonaigarh
Keonjhargarh
Udala
Bhograi
Chhattīsgarh
Megasini
Hirākud
Keonjhar
Balasore
Bhātāpara
Deogarh
Mahānadi
Sārangarh
Sambalpur
Ānandpur
Bargarh
RAIPUR
Bhadrakh
Mahāsamund
Rāmpur
Bhilai
Tālcher
Bhubān
Brāhmani
Rājim
Jājpur
Palmyras Point
Sonepur
Angul
Balāngir
Baudh
Mahānadi
Patnāgarh
Nawāpāra
Dhenkānāl
Harbhanga
Kendrāpāra
Dhamtari
Orissa
CUTTACK
Phulbāni
Mahānadi
False Point
Baudh Khondmāls
Jagatsingpur
Beliguda
Khariār
Bhubaneshwar
Mouths of the Mahānadi
Nayāgarh
Kālāhandi
Bhanjanagar
Tāngi
Deobhong
Konārak
Bhawānipatna
Chilka Lake
Puri
Sorada
Aska
Ganjām
Bissamcuttack
Mohana
Ganjām
Berhampur
Chatrapur
Dābugām
Kāshīpur
Rāyagada
Rāmagiri Udayagiri
Bastar
Gunupur
Jagdalpur
Kotapād
Sompeta
Jeypore
Koraput
Pārvatipuram
Sālūr
Boipārigūda
Bobbili
Pālkonda
Tekkali
Pottangi
Andhra Pradesh
Malakanagiri
Srikākulam
Sileru
Srungavarapukota
Vizianagaram
Vishākhapatnam
Chodavaram
Sabari
BAY OF BENGAL
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50
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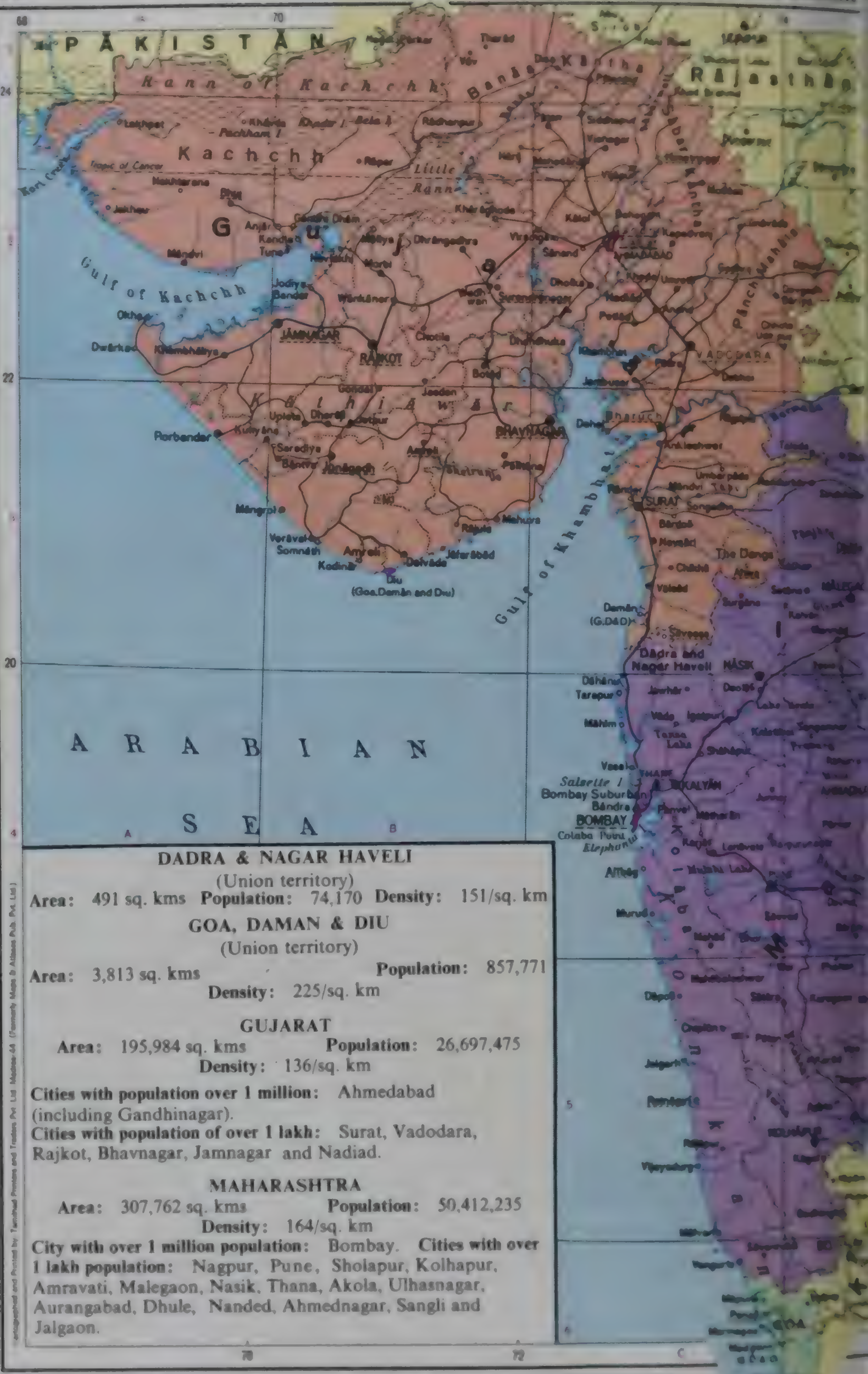
PAKISTAN
Rann of Kachchh
Kachchh
Little Rann
Gulf of Kachchh
Tropic of Cancer
Kori Creek
Lakhpat
Khavda
Pachham I.
Khadir I.
Bela I.
Radhanpur
Rapar
Nakhtarana
Bhuj
Jakhau
Anjar
Kandla
Tuna
Gandhi Dham
Mandvi
Malia
Dhrangadhra
Navlakhi
Morvi
Jodiya Bandar
Okha
Dwarka
Khambhaliya
JAMNAGAR
RAJKOT
Wankaner
Wadhwan
Surendranagar
Chotila
Viramgam
Sanand
AHMADABAD
Kalol
Dholka
Dhandhuka
Botad
Gondal
Jasdan
Kathiawar
Upleta
Dhoraji
Jetpur
Porbandar
Kutiyana
Seradiya
Bantva
Junagadh
Amreli
Shetrunji
Palitana
BHAVNAGAR
Mangrol
Veraval
Somnath
Amreli
Kodinar
Delvada
Jafarabad
Rajula
Mahuva
Diu
(Goa, Daman and Diu)
Gulf of Khambhat
Khambhat
Jambusar
Dahej
Bharuch
Ankleshwar
Rander
SURAT
Songadh
Bardoli
Navsari
Chikhli
Valsad
The Dangs
Ahwa
Daman
(G.D&D)
Silvassa
Dadra and Nagar Haveli
NASIK
Dahanu
Tarapur
Jawhar
Mahim
Wada
Igatpuri
Tansa Lake
Shahapur
Vasai
THANA
KALYAN
Salsette I.
Bombay Suburban
Bandra
BOMBAY
Colaba Point
Elephanta I.
Panvel
Karjat
Alibag
Murud
Dapoli
Chiplun
Jaigarh
Ratnagiri
Vijayadurg
Malvan
Vengurla
GOA
Mormugao
Tharad
Vav
Deesa
Banas
Banaskantha
Palanpur
Sidhpur
Visnagar
Mehsana
Harij
Sabarkantha
Himatnagar
Modasa
Kapadvanj
Nadiad
Petlad
Anand
Panchmahals
Godhra
VADODARA
Dabhoi
Narmada
Rajpipla
Rajasthan
Konkan
ARABIAN SEA
24
22
20
68
70
72

DADRA & NAGAR HAVELI

(Union territory)

Area: 491 sq. kms **Population:** 74,170 **Density:** 151/sq. km

GOA, DAMAN & DIU

(Union territory)

Area: 3,813 sq. kms **Population:** 857,771

Density: 225/sq. km

GUJARAT

Area: 195,984 sq. kms **Population:** 26,697,475

Density: 136/sq. km

Cities with population over 1 million: Ahmedabad (including Gandhinagar).

Cities with population of over 1 lakh: Surat, Vadodara, Rajkot, Bhavnagar, Jamnagar and Nadiad.

MAHARASHTRA

Area: 307,762 sq. kms **Population:** 50,412,235

Density: 164/sq. km

City with over 1 million population: Bombay. **Cities with over 1 lakh population:** Nagpur, Pune, Sholapur, Kolhapur, Amravati, Malegaon, Nasik, Thana, Akola, Ulhasnagar, Aurangabad, Dhule, Nanded, Ahmednagar, Sangli and Jalgaon.

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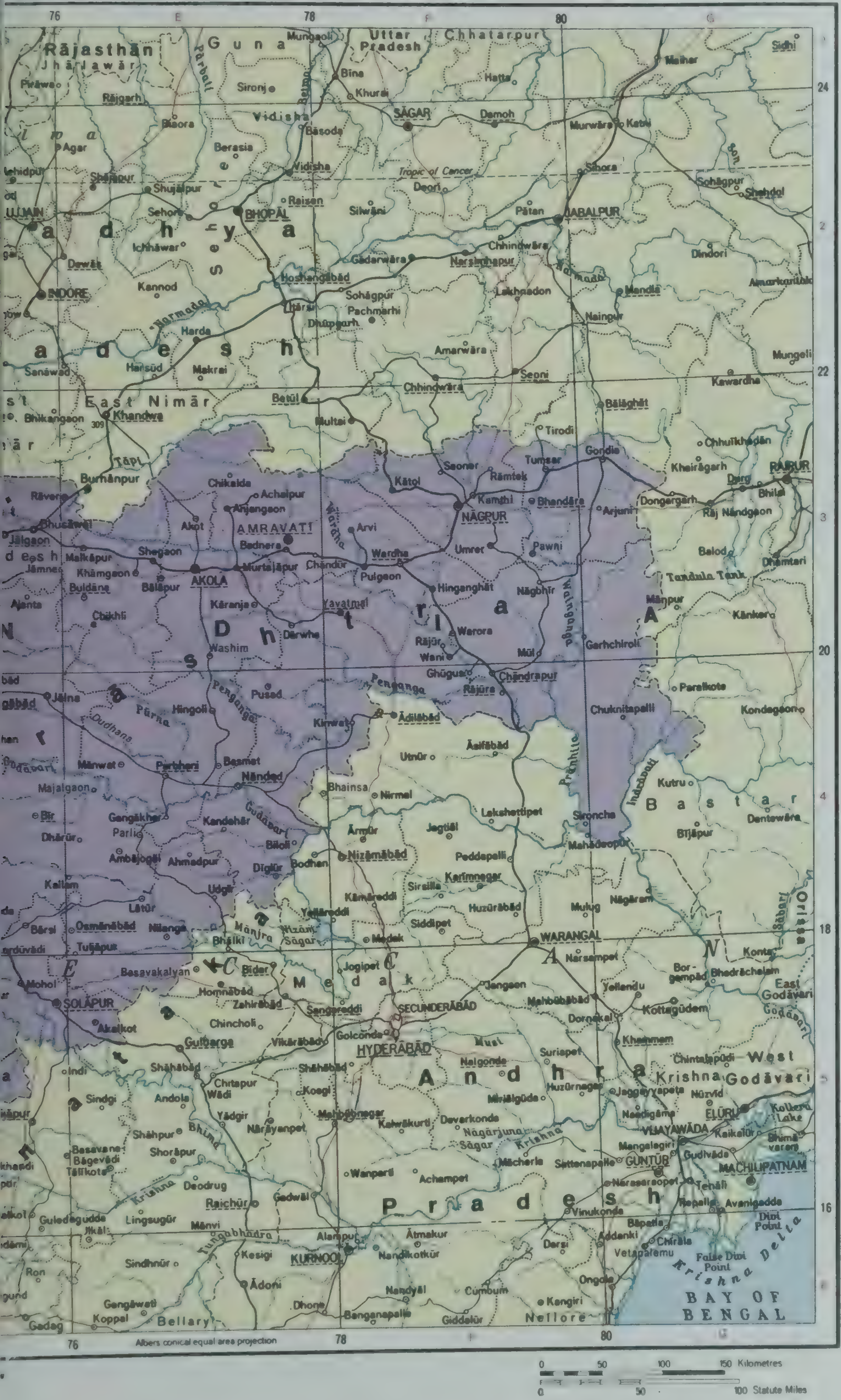
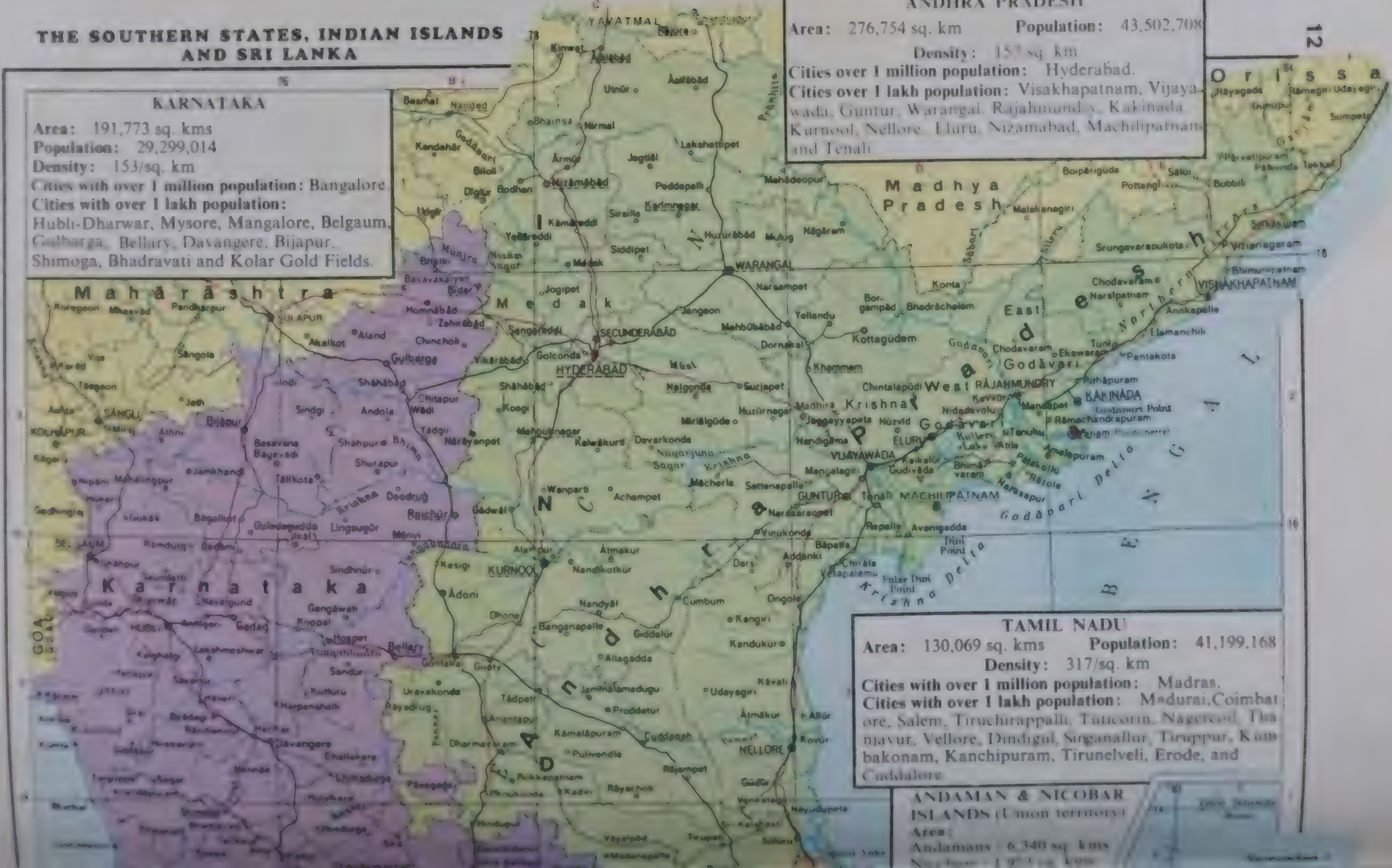
The territorial waters of India extend into the sea to a distance of twelve nautical miles measured from the appropriate base line.


76
78
80
E
F
G
24
22
20
18
16
Rājasthān
Jhālawār
Guna
Uttar Pradesh
Chhatarpur
Sidhi
Bina
Khurai
Sironj
Hatta
Maihar
SĀGAR
Damoh
Vidisha
Murwāra
Katni
Basoda
Berasia
Vidisha
Tropic of Cancer
Sihora
Son
Sohāgpur
Shahdol
Deori
Shujālpur
Raisen
BHOPĀL
Silwāni
Pātan
JABALPUR
Sehore
Ichhāwar
Dewās
INDORE
Kannod
Hoshangābād
Gādarwāra
Narsimhapur
Chhindwāra
Dindori
Mandla
Lakhnadon
Sohāgpur
Pachmarhi
Itārsi
Narmada
Harda
Amarwāra
Nainpur
Mungeli
Harsūd
Makrai
Seoni
Sanāwad
Chhindwāra
Kawardha
East Nimār
Khandwa
Betūl
Bālāghāt
Bhikangaon
Multai
Tirodi
Chhuikhadān
Burhānpur
Tāpi
Chikalda
Achalpur
Anjangaon
Kātol
Seoner
Rāmtek
Tumsar
Gondia
Kheirāgarh
RAIPUR
Durg
Bhilai
Dongargarh
Rāj Nāndgaon
Arjuni
Bhandāra
Kamthi
NĀGPUR
Wardha
AMRAVATI
Arvi
Akot
Badnera
Rāver
Bhusāwal
Jalgaon
Malkāpur
Shegaon
Jāmner
Khāmgaon
Buldāna
Bālāpur
AKOLA
Murtajāpur
Chāndūr
Pulgaon
Wardha
Umrer
Pawni
Balod
Dhamtari
Tandula Tank
Hinganghāt
Nāgbhīr
Wainganga
Mānpur
Kānker
Ajanta
Chikhli
Kāranja
Yavatmāl
Darwha
Washim
Warora
Rājūra
Wani
Garhchiroli
Mūl
Ghūgus
Chāndrapur
Rājūra
Penganga
Parālkote
Kondagaon
Jālna
Pūrna
Hingoli
Pusad
Kinwat
Ādilābād
Chuknitapalli
Āsifābād
Oudhana
Godāvari
Mānwat
Parbhani
Basmat
Utnūr
Pranhita
Indrāvati
Nānded
Bhainsa
Nirmal
Majalgaon
Kutru
Bastar
Bīr
Gangākher
Kandahār
Lakshettipet
Sironcha
Dantewāra
Parli
Ārmūr
Jagtiāl
Bījāpur
Dhārūr
Biloli
Mahādeopur
Ambājogāi
Ahmadpur
Bodhan
Nizāmābād
Peddapalli
Degiūr
Karimnagar
Sirsilla
Kallam
Udgīr
Kāmāreddi
Huzūrābād
Mulug
Nāgāram
Sabari
Orissa
Lātūr
Yellāreddi
Siddipet
Bārsi
Osmānābād
Nilanga
Mānjra
Nizām Sāgar
Medak
WARANGAL
Tuljāpur
Bhālki
Narsampet
Konta
Bidar
Jogipet
Bor-gampād
Bhadrāchalam
Basavakalyan
Medak
Jangaon
Yellandu
East Godāvari
Mohol
Homnābād
Zahirābād
Mahbūbābād
SOLĀPUR
Sangareddi
SECUNDERĀBĀD
Dornakal
Kottagūdem
Akalkot
Chincholi
Golconda
Gulbarga
Vikārābād
HYDERĀBĀD
Musi
Khammam
Suriapet
Chintalapūdi
West Godāvari
Indi
Shāhābād
Shāhābād
Nalgonda
Krishna
Chitāpur
Wādi
Kosgi
Andhra
Huzūrnagar
Jaggayyapeta
Nūzvīd
Sindgi
Andola
Miriālgūda
Yādgir
Mahbūbnagar
Devarkonda
Nandigāma
ELŪRU
Kolleru Lake
Shāhpur
Nārāyanpet
Kalwākurti
Nāgārjuna Sāgar
VIJAYAWĀDA
Kaikalūr
Bhima
Krishna
Mangalagiri
Bhīmavaram
Basavana Bāgevādi
Shorāpur
Gudivāda
Tālikota
Mācherla
Sattenapalle
GUNTŪR
MACHILIPATNAM
Wanparti
Achampet
Narasaraopet
Tenāli
Krishna
Deodrug
Raichūr
Gadwāl
Pradesh
Vinukonda
Repalle
Avanigadda
Guledagudda
Ilkal
Lingsugūr
Mānvi
Bāpatla
Diwi Point
Tungabhadra
Alampur
Ātmakur
Addanki
Chīrāla
Krishna Delta
Kesigi
Nandikotkūr
Darsi
Vetapālemu
False Diwi Point
Sindhnūr
KURNOOL
Ron
Ādoni
Nandyāl
Cumbum
Ongole
Dhone
Kangiri
BAY OF BENGAL
Gangāwati
Koppal
Bellary
Banganapalle
Giddalūr
Nellore
Gadag
Albers conical equal area projection
0 50 100 150 Kilometres
0 50 100 Statute Miles

THE SOUTHERN STATES, INDIAN ISLANDS AND SRI LANKA



Maharashtra
Karnataka
Madhya Pradesh
Orissa
Andhra Pradesh
Medak
Nalgonda
East Godavari
West Godavari
Krishna
Northern Circars
BAY OF BENGAL
Krishna Delta
Godavari Delta
HYDERABAD
SECUNDERABAD
WARANGAL
VISAKHAPATNAM
VIJAYAWADA
GUNTUR
RAJAHMUNDRY
KAKINADA
ELURU
MACHILIPATNAM
KURNOOL
NELLORE
SOLAPUR
KOLHAPUR
SANGLI
BELGAUM
GOA
YAVATMAL
Nanded
Gulbarga
Bijapur
Raichur
Bellary
Hubli
Davangere
Nizamabad
Karimnagar
Khammam
Ongole
Cuddapah
Anantapur
Tenali

KARNATAKA

Area: 191,773 sq. kms
Population: 29,299,014
Density: 153/sq. km
Cities with over 1 million population: Bangalore
Cities with over 1 lakh population:
Hubli-Dharwar, Mysore, Mangalore, Belgaum, Gulbarga, Bellary, Davangere, Bijapur, Shimoga, Bhadravati and Kolar Gold Fields.

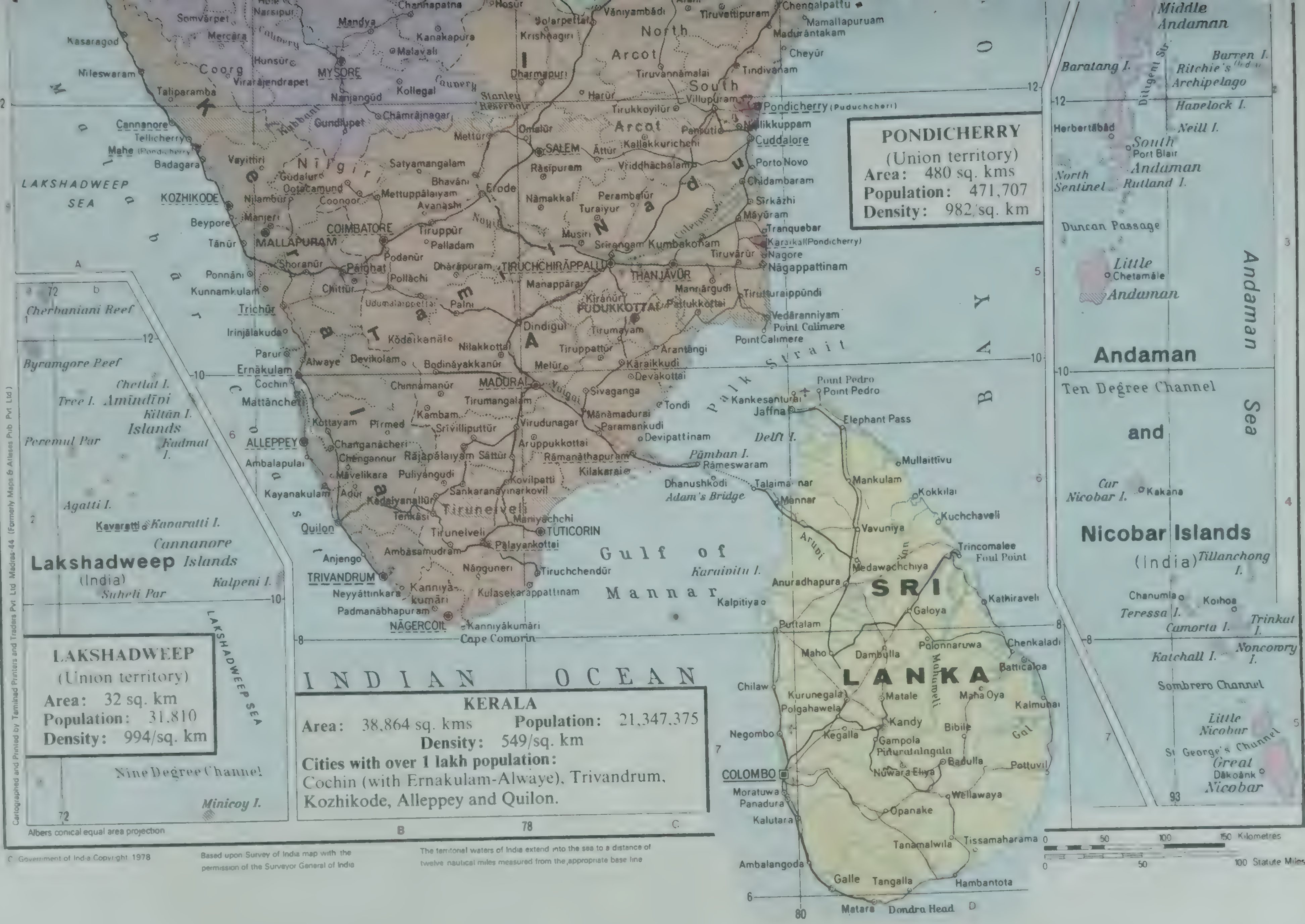
ANDHRA PRADESH

Area: 276,754 sq. km **Population:** 43,502,708
Density: 157 sq km
Cities over 1 million population: Hyderabad.
Cities over 1 lakh population: Visakhapatnam, Vijayawada, Guntur, Warangal, Rajahmundry, Kakinada, Kurnool, Nellore, Eluru, Nizamabad, Machilipatnam and Tenali

TAMIL NADU

Area: 130,069 sq. kms **Population:** 41,199,168
Density: 317/sq. km
Cities with over 1 million population: Madras.
Cities with over 1 lakh population: Madurai, Coimbatore, Salem, Tiruchirappalli, Tuticorin, Nagercoil, Thanjavur, Vellore, Dindigul, Singanallur, Tiruppur, Kumbakonam, Kanchipuram, Tirunelveli, Erode, and Cuddalore

ANDAMAN & NICOBAR ISLANDS (Union territory)
Area:
Andamans 6,340 sq. kms


Andaman
Sea
Andaman
and
Nicobar Islands
(India)
Middle Andaman
Baratang I.
Ritchie's Archipelago
Barren I.
Havelock I.
Neill I.
Herbertābād
South Andaman
Port Blair
North Sentinel
Rutland I.
Duncan Passage
Little Andaman
Chetamāle
Ten Degree Channel
Car Nicobar I.
Kakana
Tillanchong I.
Chanumla
Teressa I.
Koihoa
Camorta I.
Trinkat I.
Katchall I.
Nancowry I.
Sombrero Channel
Little Nicobar
St George's Channel
Great Nicobar
Dākoānk
BAY
INDIAN OCEAN
LAKSHADWEEP SEA
Lakshadweep Islands
(India)
Cherbaniani Reef
Byramgore Reef
Chetlat I.
Tree I.
Amīndīvi Islands
Kiltān I.
Peremul Par
Kadmat I.
Agatti I.
Kavaratti
Kavaratti I.
Cannanore
Kalpeni I.
Suheli Par
Nine Degree Channel
Minicoy I.
Kerala
Tamil Nadu
Karnataka
Kasaragod
Nileswaram
Taliparamba
Cannanore
Tellicherry
Mahe (Pondicherry)
Badagara
KOZHIKODE
Beypore
Tānūr
Ponnāni
Kunnamkulam
Trichūr
Irinjālakuda
Parur
Ernākulam
Cochin
Mattānchēri
ALLEPPEY
Ambalapulai
Kayanakulam
Quilon
Anjengo
TRIVANDRUM
Neyyāttinkara
Padmanābhapuram
NĀGERCOIL
Kanniyākumāri
Cape Comorin
Coorg
Somvārpet
Mercāra
Virarājendrapet
Hunsūr
MYSORE
Mandya
Nanjangūd
Gundlupet
Kollegal
Malavalli
Kanakapura
Channapatna
Chāmrājnagar
Hosūr
Krishnagiri
Dharmapuri
Stanley Reservoir
Cauvery
Nilgiri
Gūdalūr
Ootacamund
Coonoor
Nilambūr
Manjeri
MALLAPURAM
Vayittiri
COIMBATORE
Mettuppālaiyam
Avanāshi
Tiruppūr
Palladam
Podanūr
Palghat
Shoranūr
Chittūr
Pollāchi
Udumalaipettai
Palni
Kōdaikānal
Devikolam
Alwaye
Bodināyakkanūr
Chinnamanūr
Kambam
Pirmed
Kottayam
Changanācheri
Chengannur
Māvelikara
Adūr
Rājapālaiyam
Srīvilliputtūr
Puliyangudi
Kadaiyanallūr
Tenkāsi
Sankaranayinarkovil
Tirunelveli
Ambāsamudram
Nānguneri
Pālayankottai
TUTICORIN
Kulasekarappattinam
Tiruchchendūr
Kovilpatti
Sāttūr
Aruppukkottai
Virudunagar
Tirumangalam
MADURAI
Melūr
Dindigul
Nilakkottai
Manapparai
Kīranūr
PUDUKKOTTAI
Tirumayam
Tiruppattūr
Kāraikkudi
Devakottai
Sivaganga
Mānāmadurai
Paramakudi
Rāmanāthapuram
Kilakarai
Devipattinam
Tondi
Arantāngi
Pattukkottai
Mannārgudi
THANJAVŪR
TIRUCHCHIRĀPPALLI
Srirangam
Kumbakonam
Musiri
Turaiyur
Perambalūr
Nāmakkal
Rāsipuram
SALEM
Āttūr
Omalūr
Mettūr
Bhavāni
Erode
Satyamangalam
Noyil
Harūr
Vāniyambādi
Jolarpettai
North Arcot
South Arcot
Tiruvannāmalai
Tiruvettipuram
Tindivanam
Villupuram
Tirukkoyilūr
Kallakkurichchi
Vriddhāchalam
Panruti
Nellikkuppam
Cuddalore
Porto Novo
Chidambaram
Sīrkāzhi
Māyūram
Tranquebar
Karaikal (Pondicherry)
Nagore
Nāgappattinam
Tiruvārūr
Tiruttturaippūndi
Vedāranniyam
Point Calimere
Pondicherry (Puduchcheri)
Chengalpattu
Mamallapuram
Madurāntakam
Cheyūr
Palk Strait
Point Pedro
Kankesanturai
Jaffna
Elephant Pass
Delft I.
Pāmban I.
Rāmeswaram
Dhanushkōdi
Adam's Bridge
Talaimannar
Mannar
Gulf of Mannar
Karaitivu I.
Kalpitiya
Puttalam
Chilaw
Negombo
COLOMBO
Moratuwa
Panadura
Kalutara
Ambalangoda
Galle
Tangalla
Matara
Dondra Head
Hambantota
Tissamaharama
Tanamalwila
Wellawaya
Opanake
Nuwara Eliya
Badulla
Pidurutalagala
Gampola
Kandy
Kegalla
Polgahawela
Kurunegala
Matale
Maho
Dambulla
Polonnaruwa
Mahaweli
Maha Oya
Bibile
Gal
Pottuvil
Kalmunai
Batticaloa
Chenkaladi
Kathiraveli
Trincomalee
Foul Point
Galoya
Anuradhapura
Medawachchiya
Aruvi
Vavuniya
Mankulam
Mullaittivu
Kokkilai
Kuchchaveli
SRI LANKA
12
10
8
6
72
78
80
93
A
B
C
D
0 50 100 150 Kilometres
0 50 100 Statute Miles

PONDICHERRY
(Union territory)
Area: 480 sq. kms
Population: 471,707
Density: 982/sq. km

LAKSHADWEEP
(Union territory)
Area: 32 sq. km
Population: 31,810
Density: 994/sq. km

KERALA
Area: 38,864 sq. kms Population: 21,347,375
Density: 549/sq. km

Cities with over 1 lakh population:
Cochin (with Ernakulam-Alwaye), Trivandrum, Kozhikode, Alleppey and Quilon.

Albers conical equal area projection

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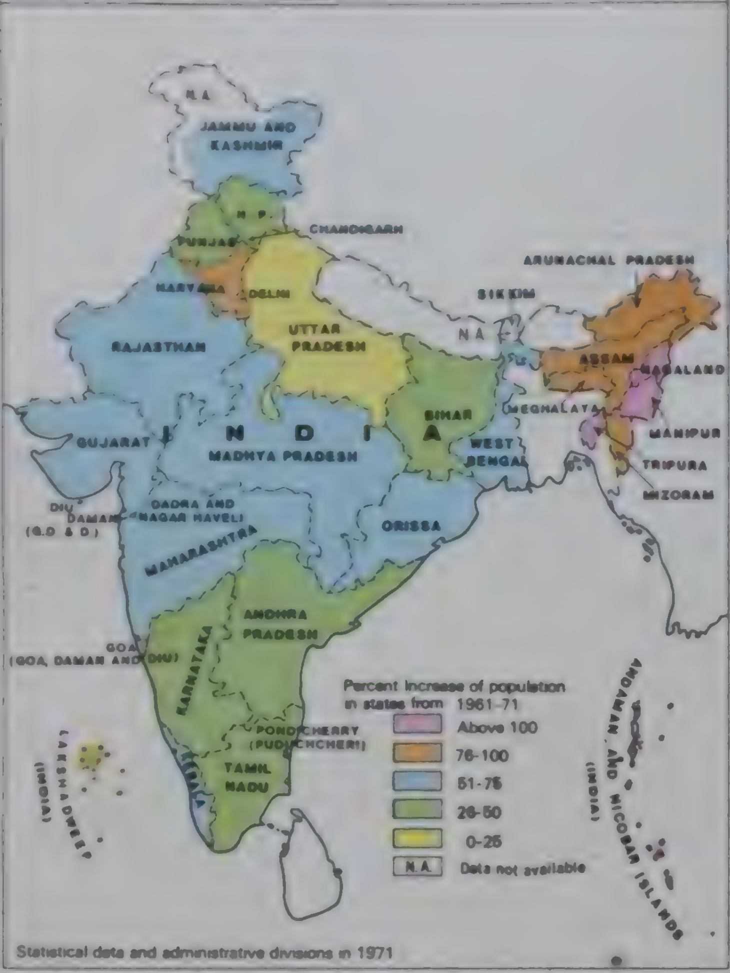
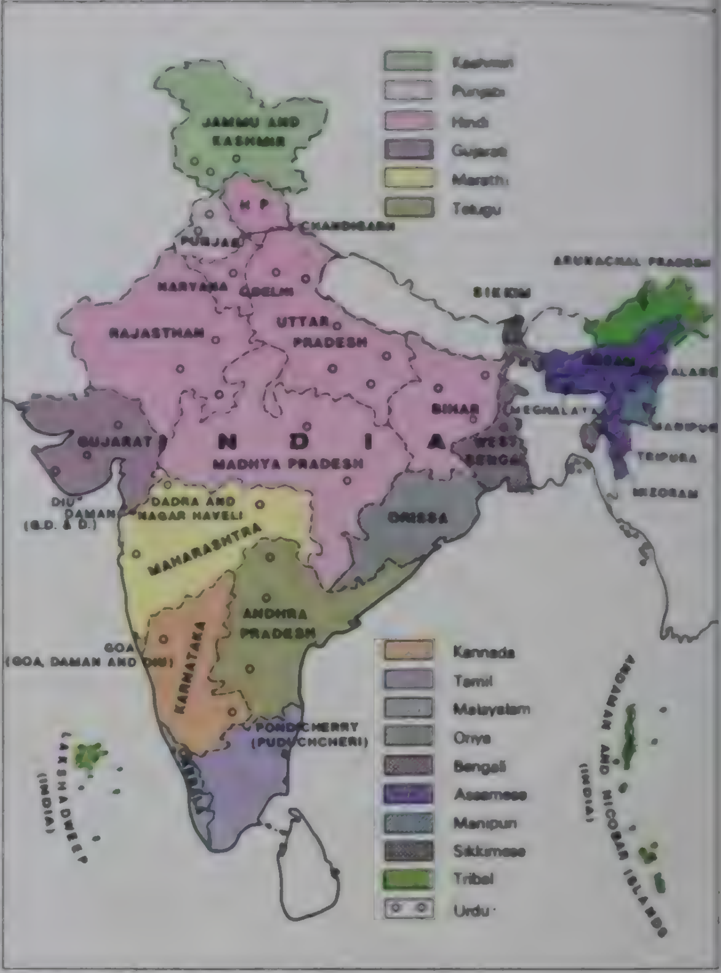
GROWTH OF POPULATION

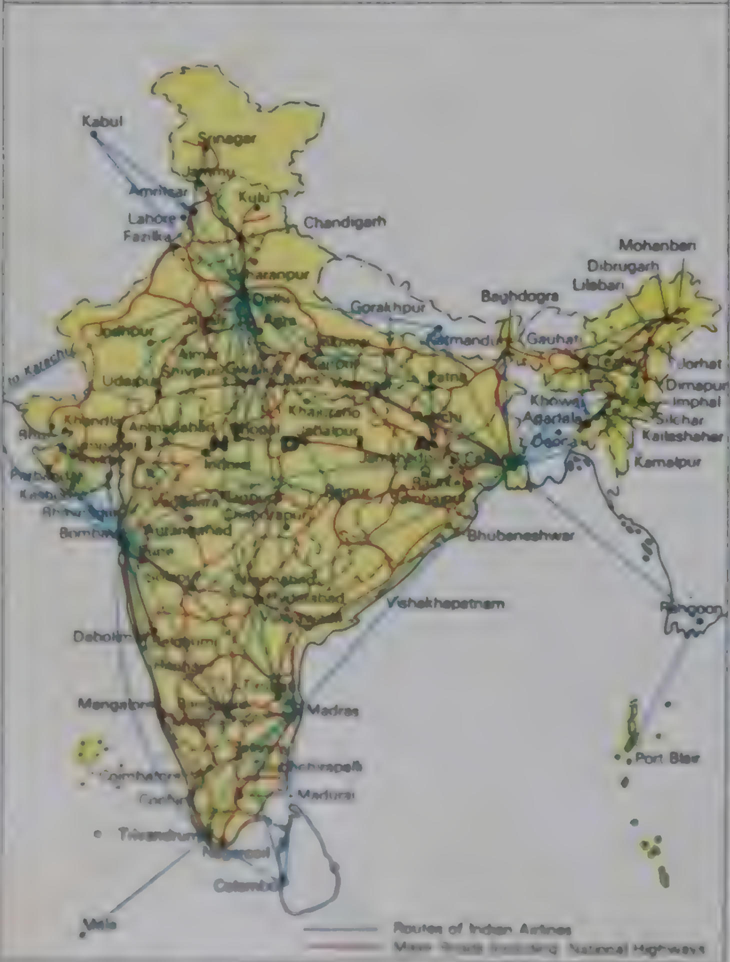

N.A.
JAMMU AND KASHMIR
H.P.
CHANDIGARH
PUNJAB
HARYANA
DELHI
UTTAR PRADESH
ARUNACHAL PRADESH
SIKKIM
N.A.
ASSAM
NAGALAND
MEGHALAYA
MANIPUR
TRIPURA
MIZORAM
RAJASTHAN
GUJARAT
I N D I A
MADHYA PRADESH
BIHAR
WEST BENGAL
DIU
DAMAN
(G.D. & D.)
DADRA AND NAGAR HAVELI
ORISSA
MAHARASHTRA
ANDHRA PRADESH
GOA
(GOA, DAMAN AND DIU)
KARNATAKA
PONDICHERRY (PUDUCHCHERI)
TAMIL NADU
KERALA
LAKSHADWEEP (INDIA)
ANDAMAN AND NICOBAR ISLANDS (INDIA)
Percent increase of population in states from 1961-71
Above 100
76-100
51-75
26-50
0-25
N.A. Data not available

Statistical data and administrative divisions in 1971

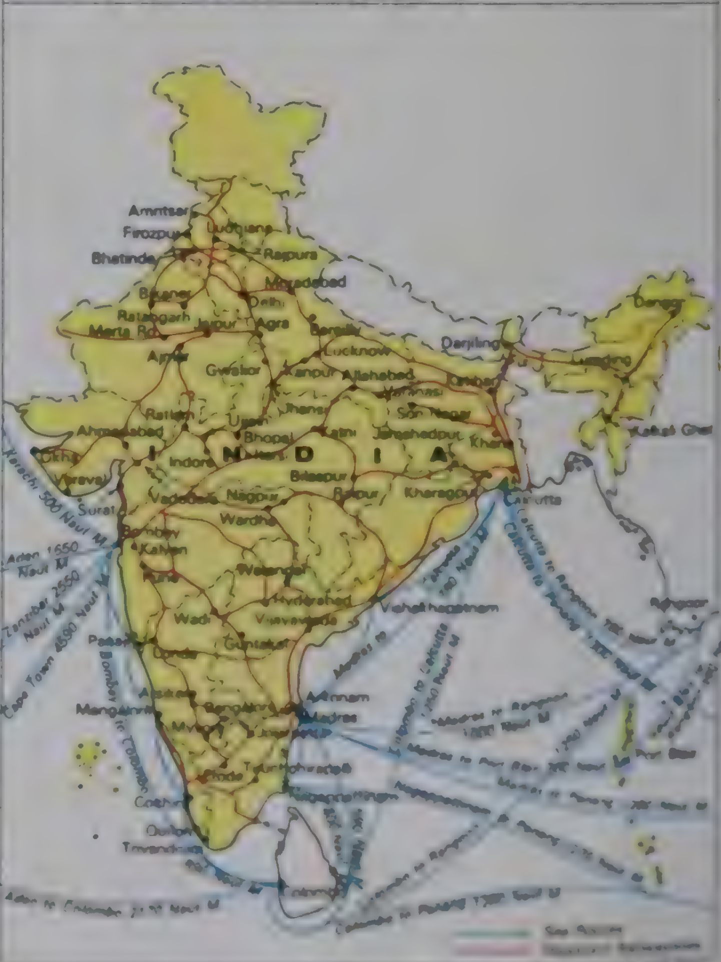
LANGUAGES


Kashmiri
Punjabi
Hindi
Gujarati
Marathi
Telugu
JAMMU AND KASHMIR
H.P.
CHANDIGARH
PUNJAB
HARYANA
DELHI
UTTAR PRADESH
ARUNACHAL PRADESH
SIKKIM
ASSAM
NAGALAND
MEGHALAYA
MANIPUR
TRIPURA
MIZORAM
RAJASTHAN
GUJARAT
I N D I A
MADHYA PRADESH
BIHAR
WEST BENGAL
DIU
DAMAN
(G.D. & D.)
DADRA AND NAGAR HAVELI
ORISSA
MAHARASHTRA
ANDHRA PRADESH
GOA
(GOA, DAMAN AND DIU)
KARNATAKA
PONDICHERRY (PUDUCHCHERI)
LAKSHADWEEP (INDIA)
ANDAMAN AND NICOBAR ISLANDS (INDIA)
Kannada
Tamil
Malayalam
Oriya
Bengali
Assamese
Manipuri
Sikkimese
Tribal
Urdu

MEANS OF COMMUNICATION I


Kabul
Srinagar
Jammu
Amritsar
Kulu
Lahore
Fazilka
Chandigarh
Mohanbari
Dibrugarh
Lilabari
Delhi
Agra
Gorakhpur
Baghdogra
Jodhpur
Kathmandu
Gauhati
Jorhat
to Karachi
Udaipur
Patna
Dimapur
Imphal
Khowai
Agartala
Silchar
Kailashahar
Ahmadabad
I N D I A
Indore
Jamshedpur
Kamalpur
Bombay
Aurangabad
Pune
Hyderabad
Bhubaneshwar
Vishakhapatnam
Rangoon
Dabolim
Belgaum
Mangalore
Madras
Port Blair
Coimbatore
Cochin
Madurai
Trivandrum
Colombo
Male
Routes of Indian Airlines
Main Roads including National Highways
Lambert azimuthal equal area projection

MEANS OF COMMUNICATION II


Amritsar
Firozpur
Ludhiana
Bhatinda
Rajpura
Moradabad
Bikaner
Delhi
Ratangarh
Merta Rd.
Jaipur
Agra
Bareilly
Lucknow
Darjiling
Ajmer
Gwalior
Kanpur
Allahabad
Varanasi
Ratlam
Jhansi
Son Nagar
Ahmadabad
Bhopal
Katni
Jamshedpur
Indore
I N D I A
Bilaspur
Veraval
Vadodara
Nagpur
Raipur
Kharagpur
Calcutta
Surat
Wardha
Bombay
Kalyan
Pune
Karachi 500 Naut M
Aden 1650 Naut M
Zanzibar 2550 Naut M
Cape Town 4550 Naut M
Wadi
Hyderabad
Vijayawada
Vishakhapatnam
Panaji
Londa
Guntakal
Rangoon
Calcutta to Rangoon
Calcutta to Penang
Madras to Calcutta
Colombo to Calcutta
Arkonam
Madras
Mangalore
Bangalore
Madras to Rangoon
Madras to Port Blair
Madras to Penang
Port Blair
Mysore
Erode
Tiruchchirappalli
Bombay to Colombo
Cochin
Quilon
Trivandrum
Colombo
Aden to Colombo 2170 Naut M
Colombo to Penang 1280 Naut M
Sea Routes
Railways

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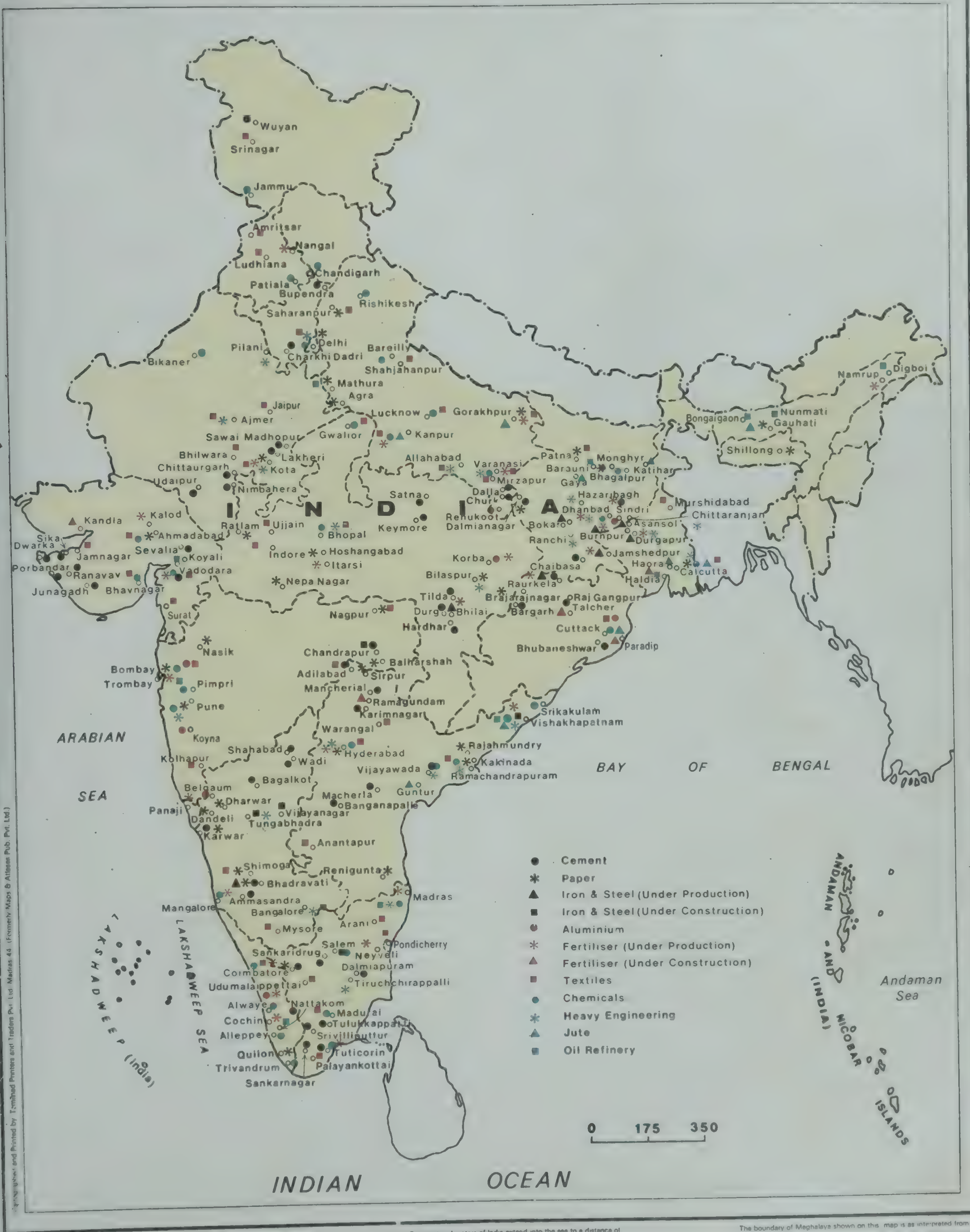
INDIA-INDUSTRIES


Wuyan
Srinagar
Jammu
Amritsar
Nangal
Ludhiana
Chandigarh
Patiala
Bupendra
Rishikesh
Saharanpur
Delhi
Pilani
Charkhi Dadri
Bareilly
Shahjahanpur
Bikaner
Mathura
Agra
Jaipur
Ajmer
Lucknow
Gorakhpur
Sawai Madhopur
Gwalior
Kanpur
Bhilwara
Lakheri
Chittaurgarh
Kota
Allahabad
Varanasi
Mirzapur
Patna
Monghyr
Barauni
Katihar
Gaya
Bhagalpur
Udaipur
Nimbahera
Dalla
Churk
Hazaribagh
Satna
I N D I A
Murshidabad
Kandla
Kalod
Dhanbad
Sindri
Chittaranjan
Renukoot
Dalmianagar
Ratlam
Ujjain
Keymore
Bokaro
Asansol
Sika
Dwarka
Ahmadabad
Bhopal
Ranchi
Burnpur
Durgapur
Jamnagar
Sevalia
Koyali
Indore
Hoshangabad
Korba
Jamshedpur
Porbandar
Itarsi
Haora
Calcutta
Ranavav
Vadodara
Chaibasa
Bilaspur
Haldia
Junagadh
Bhavnagar
Nepa Nagar
Raurkela
Tilda
Brajarajnagar
Raj Gangpur
Surat
Nagpur
Durg
Bhilai
Bargarh
Talcher
Hardhar
Cuttack
Nasik
Bhubaneshwar
Paradip
Chandrapur
Balharshah
Bombay
Adilabad
Sirpur
Trombay
Pimpri
Mancherial
Ramagundam
Karimnagar
Pune
Srikakulam
Vishakhapatnam
ARABIAN
Warangal
Koyna
Shahabad
Hyderabad
Rajahmundry
Kolhapur
Wadi
Kakinada
Vijayawada
BAY OF BENGAL
Ramachandrapuram
SEA
Bagalkot
Belgaum
Dharwar
Macherla
Guntur
Panaji
Banganapalle
Dandeli
Vijayanagar
Tungabhadra
Karwar
Anantapur
Shimoga
Renigunta
Bhadravati
Madras
Ammasandra
Mangalore
Bangalore
Arani
Mysore
Pondicherry
Salem
Sankaridrug
Neyveli
Dalmiapuram
Coimbatore
Udumalaippettai
Tiruchchirappalli
Alwaye
Nattakom
Madurai
Cochin
Tulukkappatti
Alleppey
Srivilliputtur
Quilon
Tuticorin
Trivandrum
Palayankottai
Sankarnagar
LAKSHADWEEP (India)
LAKSHADWEEP SEA
Bongaigaon
Nunmati
Gauhati
Shillong
Namrup
Digboi
ANDAMAN AND NICOBAR ISLANDS (INDIA)
Andaman Sea
● Cement
✱ Paper
▲ Iron & Steel (Under Production)
■ Iron & Steel (Under Construction)
● Aluminium
✳ Fertiliser (Under Production)
▲ Fertiliser (Under Construction)
■ Textiles
● Chemicals
✳ Heavy Engineering
▲ Jute
■ Oil Refinery
0 175 350
INDIAN OCEAN

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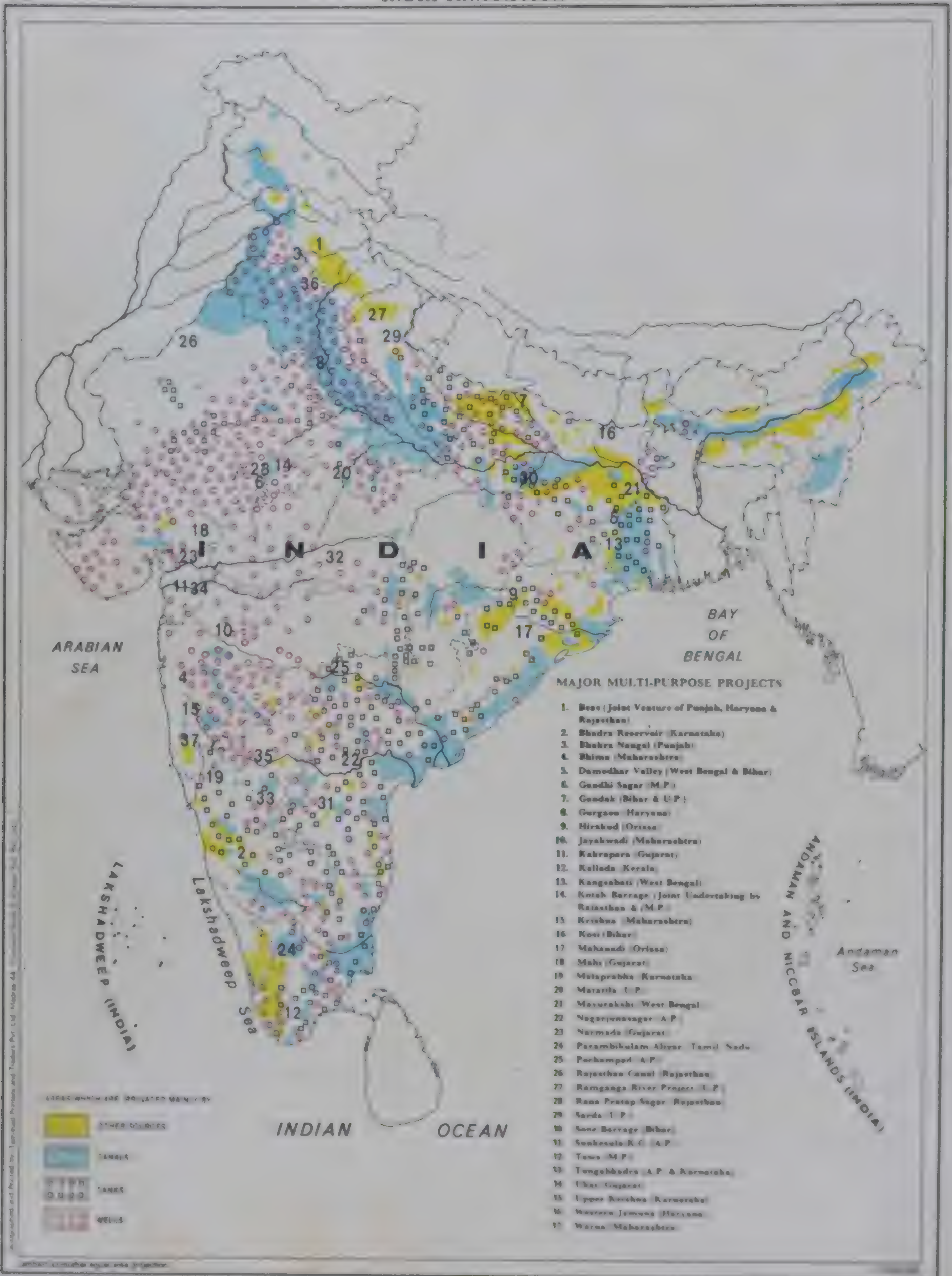
The territorial waters of India extend into the sea to a distance of twelve nautical miles measured from the appropriate base line

The boundary of Meghalaya shown on this map is as interpreted from th North-Eastern Areas (Reorganisation) Act 1971 but has yet to be verifie

INDIA·IRRIGATION


I N D I A
ARABIAN SEA
BAY OF BENGAL
INDIAN OCEAN
LAKSHADWEEP (INDIA)
Lakshadweep Sea
ANDAMAN AND NICOBAR ISLANDS (INDIA)
Andaman Sea
1
2
3
4
5
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35
36
37
AREAS WHICH ARE IRRIGATED MAINLY BY
OTHER SOURCES
CANALS
TANKS
WELLS
Lambert azimuthal equal area projection.

MAJOR MULTI-PURPOSE PROJECTS

1. Beas (Joint Venture of Punjab, Haryana & Rajasthan)
2. Bhadra Reservoir (Karnataka)
3. Bhakra Nangal (Punjab)
4. Bhima (Maharashtra)
5. Damodhar Valley (West Bengal & Bihar)
6. Gandhi Sagar (M.P.)
7. Gandak (Bihar & U.P.)
8. Gurgaon (Haryana)
9. Hirakud (Orissa)
10. Jayakwadi (Maharashtra)
11. Kakrapara (Gujarat)
12. Kallada (Kerala)
13. Kangsabati (West Bengal)
14. Kotah Barrage (Joint Undertaking by Rajasthan & (M.P.)
15. Krishna (Maharashtra)
16. Kosi (Bihar)
17. Mahanadi (Orissa)
18. Mahi (Gujarat)
19. Malaprabha (Karnataka)
20. Matatila (U.P.)
21. Mayurakshi (West Bengal)
22. Nagarjunasagar (A.P.)
23. Narmada (Gujarat)
24. Parambikulam Aliyar (Tamil Nadu)
25. Pochampad (A.P.)
26. Rajasthan Canal (Rajasthan)
27. Ramganga River Project (U.P.)
28. Rana Pratap Sagar (Rajasthan)
29. Sarda (U.P.)
30. Sone Barrage (Bihar)
31. Sunkesula K.C. (A.P.)
32. Tawa (M.P.)
33. Tungabhadra (A.P. & Karnataka)
34. Ukai (Gujarat)
35. Upper Krishna (Karnataka)
36. Western Jamuna (Haryana)
37. Warna (Maharashtra)

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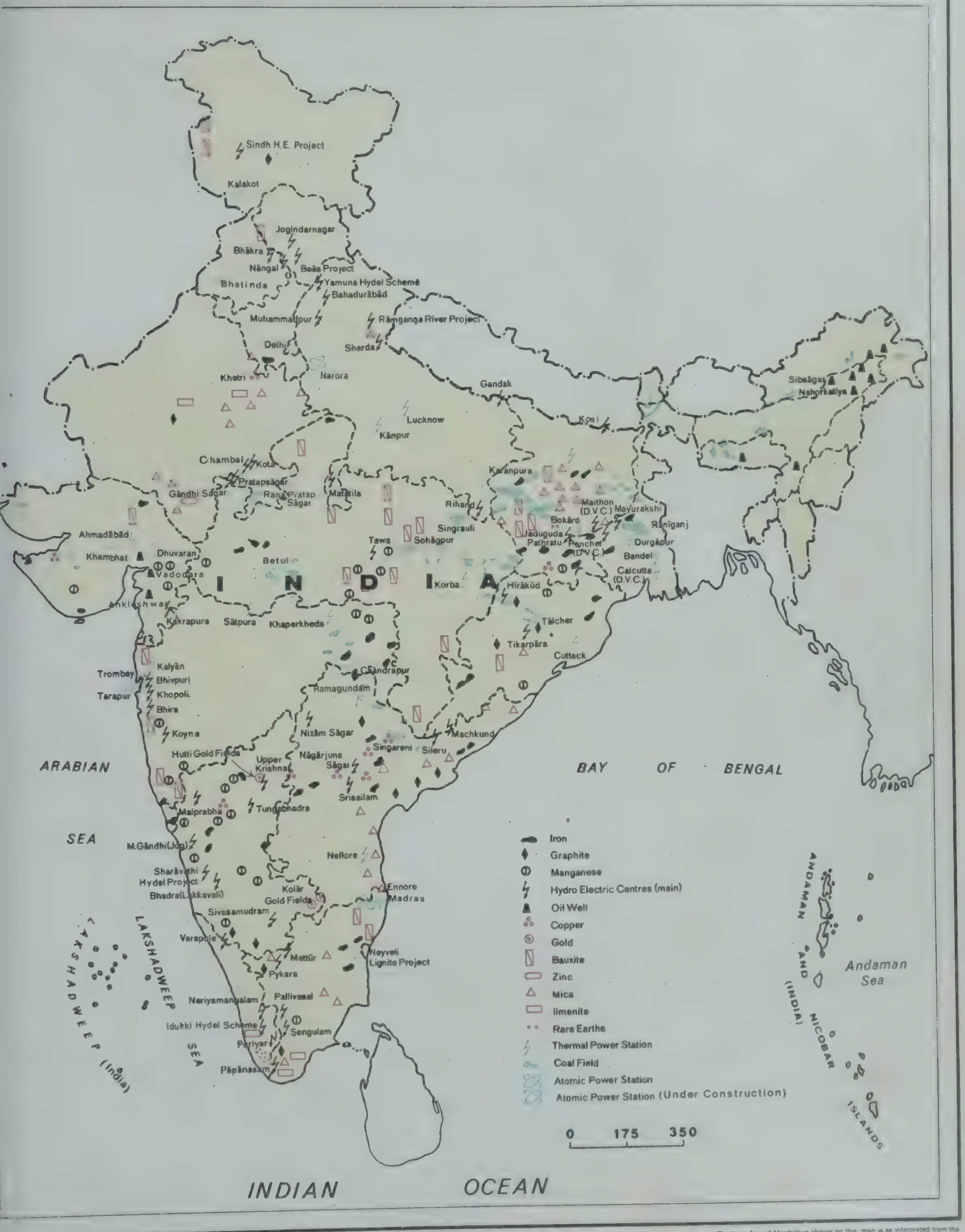
INDIA-MINERALS AND POWER


Sindh H.E. Project
Kalakot
Jogindarnagar
Bhākra
Nāngal
Beās Project
Bhatinda
Yamuna Hydel Scheme
Bahadurābād
Muhammadpur
Rāmganga River Project
Sharda
Delhi
Narora
Khetri
Gandak
Lucknow
Kānpur
Kosi
Sibsāgar
Nahorkatiya
Chambal
Kota
Pratapsāgar
Gāndhi Sāgar
Rana Pratap Sāgar
Matatila
Rihand
Karanpura
Maithon (D.V.C.)
Mayurakshi
Bokāro
Rāniganj
Singrauli
Jaduguda
Pathratu
Panchet (D.V.C.)
Durgāpur
Bandel
Calcutta (D.V.C.)
Ahmadābād
Khambhat
Dhuvaran
Vadodara
Ankleshwar
Tawa
Sohāgpur
Betul
I N D I A
Korba
Hirākūd
Talcher
Tikarpāra
Cuttack
Kakrapura
Sātpura
Khaperkheda
Trombay
Tarapur
Kalyān
Bhivpuri
Khopoli
Bhira
Koyna
Chandrapur
Ramagundam
Nizām Sāgar
Machkund
Singareni
Sileru
Hutti Gold Fields
Upper Krishna
Nāgārjuna Sāgar
Srisailam
Malprabha
Tungabhadra
ARABIAN
SEA
BAY OF BENGAL
M.Gāndhi(Jog)
Nellore
Sharāvathi Hydel Project
Bhadra(Lakkavali)
Kolār Gold Fields
Ennore
Madras
Sivasamudram
Varapole
Mettūr
Neyveli Lignite Project
Pykara
LAKSHADWEEP
LAKSHADWEEP (India)
Neriyamangalam
Pallivasal
Idukki Hydel Scheme
Sengulam
Periyar
SEA
Pāpānasam
ANDAMAN AND NICOBAR (INDIA) ISLANDS
Andaman Sea
Iron
Graphite
Manganese
Hydro Electric Centres (main)
Oil Well
Copper
Gold
Bauxite
Zinc
Mica
Ilmenite
Rare Earths
Thermal Power Station
Coal Field
Atomic Power Station
Atomic Power Station (Under Construction)
0 175 350
INDIAN OCEAN

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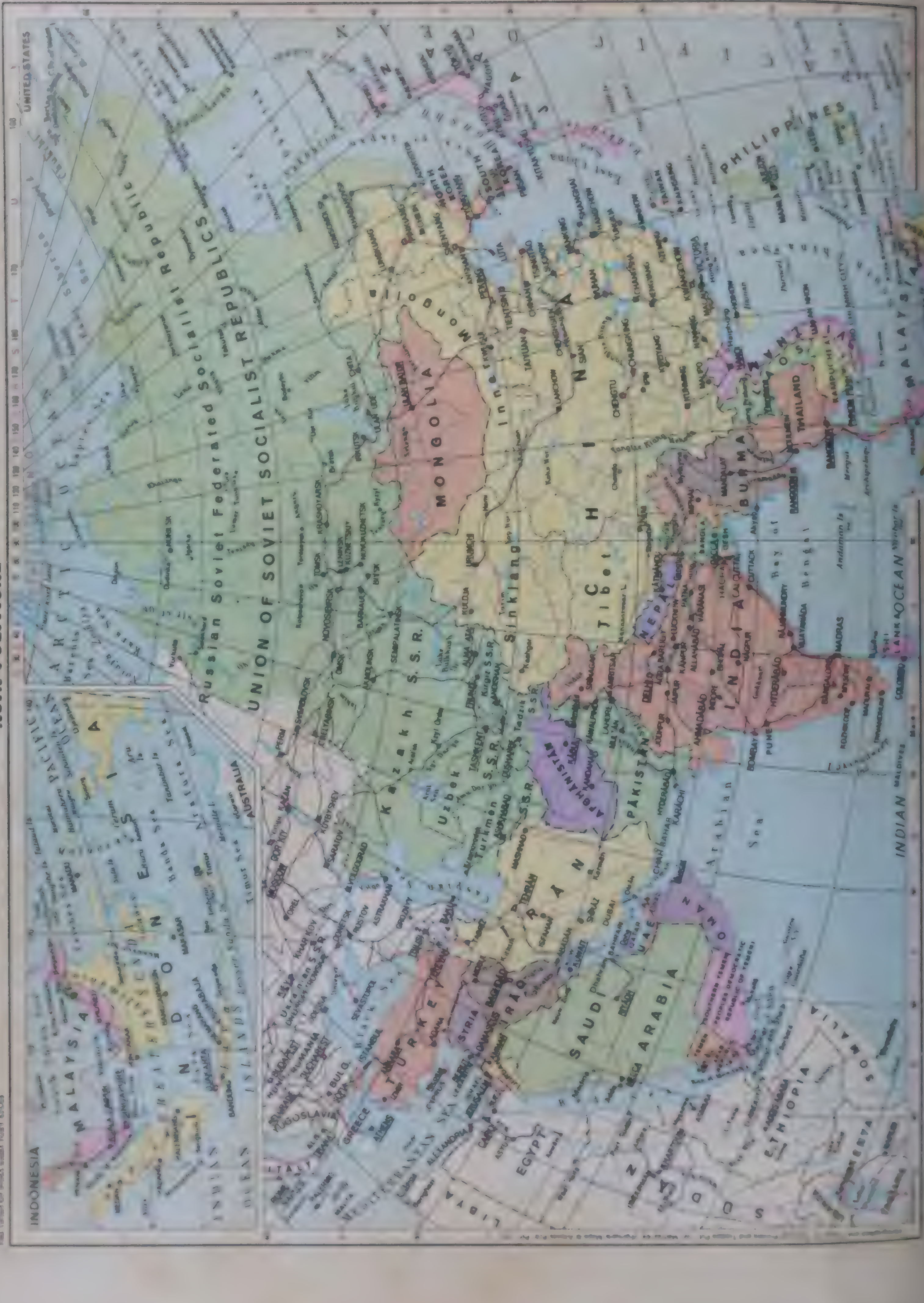
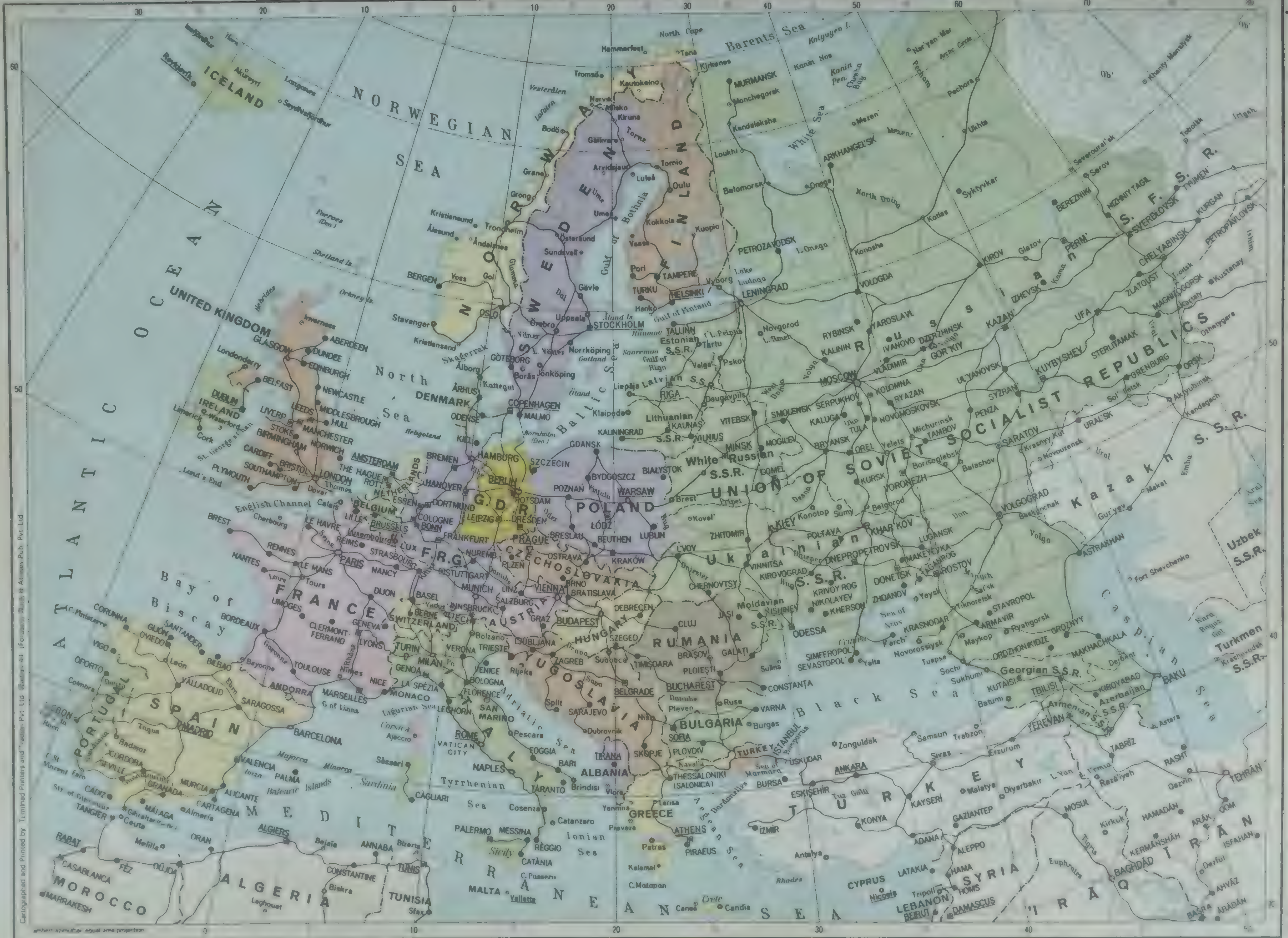
ASIA-POLITICAL


INDONESIA
MALAYSIA
PACIFIC OCEAN
INDIAN OCEAN
AUSTRALIA
ARCTIC OCEAN
UNITED STATES
Russian Soviet Federated Socialist Republic
UNION OF SOVIET SOCIALIST REPUBLICS
Kazakh S.S.R.
Uzbek S.S.R.
Turkmen S.S.R.
Kirgiz S.S.R.
Tadzhik S.S.R.
Ukrainian S.S.R.
MONGOLIA
CHINA
Inner Mongolia
Sinkiang
Tibet
NORTH KOREA
SOUTH KOREA
JAPAN
TAIWAN
PHILIPPINES
BURMA
THAILAND
KAMPUCHEA
MALAYSIA
INDIA
NEPAL
SRI LANKA
MALDIVES
PAKISTAN
AFGHANISTAN
IRAN
IRAQ
SYRIA
TURKEY
SAUDI ARABIA
OMAN
U.A.E.
EGYPT
LIBYA
SUDAN
ETHIOPIA
SOMALIA
GREECE
YUGOSLAVIA
BULG.
ITALY
Arabian Sea
Bay of Bengal
Mediterranean Sea
Black Sea
Caspian Sea
MOSCOW
PEKING
TOKYO
DELHI
TEHRAN
BAGHDAD
KARACHI
BOMBAY
CALCUTTA
MADRAS
COLOMBO
BANGKOK
SHANGHAI
ULAN BATOR

EUROPE POLITICAL


ATLANTIC OCEAN
NORWEGIAN SEA
North Sea
Barents Sea
White Sea
Baltic Sea
Gulf of Bothnia
Gulf of Finland
English Channel
Bay of Biscay
MEDITERRANEAN SEA
Tyrrhenian Sea
Adriatic Sea
Ionian Sea
Aegean Sea
Black Sea
Sea of Azov
Caspian Sea
Aral Sea
ICELAND
Reykjavik
UNITED KINGDOM
LONDON
IRELAND
DUBLIN
NORWAY
OSLO
SWEDEN
STOCKHOLM
FINLAND
HELSINKI
DENMARK
COPENHAGEN
NETHERLANDS
AMSTERDAM
BELGIUM
BRUSSELS
Lux
F.R.G.
BONN
G.D.R.
BERLIN
POLAND
WARSAW
CZECHOSLOVAKIA
PRAGUE
AUSTRIA
VIENNA
HUNGARY
BUDAPEST
SWITZERLAND
BERNE
FRANCE
PARIS
SPAIN
MADRID
PORTUGAL
LISBON
ANDORRA
MONACO
ITALY
ROME
VATICAN CITY
SAN MARINO
MALTA
Valletta
YUGOSLAVIA
BELGRADE
ALBANIA
TIRANA
RUMANIA
BUCHAREST
BULGARIA
SOFIA
GREECE
ATHENS
TURKEY
ANKARA
CYPRUS
Nicosia
SYRIA
DAMASCUS
LEBANON
BEIRUT
IRAQ
BAGHDAD
IRAN
TEHRAN
MOROCCO
RABAT
ALGERIA
ALGIERS
TUNISIA
TUNIS
UNION OF SOVIET SOCIALIST REPUBLICS
Russian S.F.S.R.
MOSCOW
LENINGRAD
Estonian S.S.R.
TALLINN
Latvian S.S.R.
RIGA
Lithuanian S.S.R.
VILNIUS
White Russian S.S.R.
MINSK
Ukrainian S.S.R.
KIEV
Moldavian S.S.R.
KISHINEV
Georgian S.S.R.
TBILISI
Armenian S.S.R.
YEREVAN
Azerbaijan S.S.R.
BAKU
Kazakh S.S.R.
Uzbek S.S.R.
Turkmen S.S.R.
Lambert azimuthal equal area projection
0
200
400
600
800 Kilometres
0
200
400
600 Statute Miles

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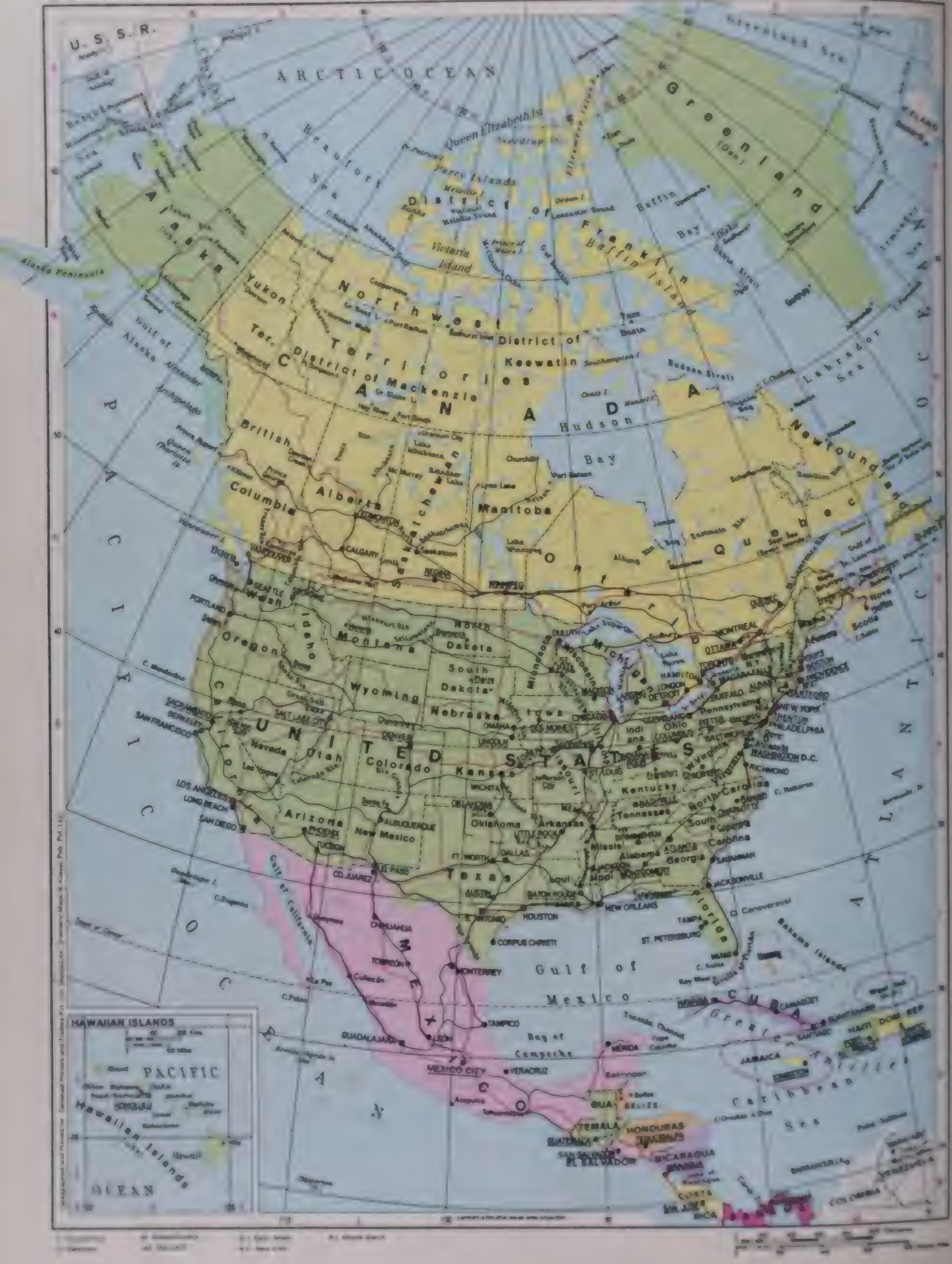
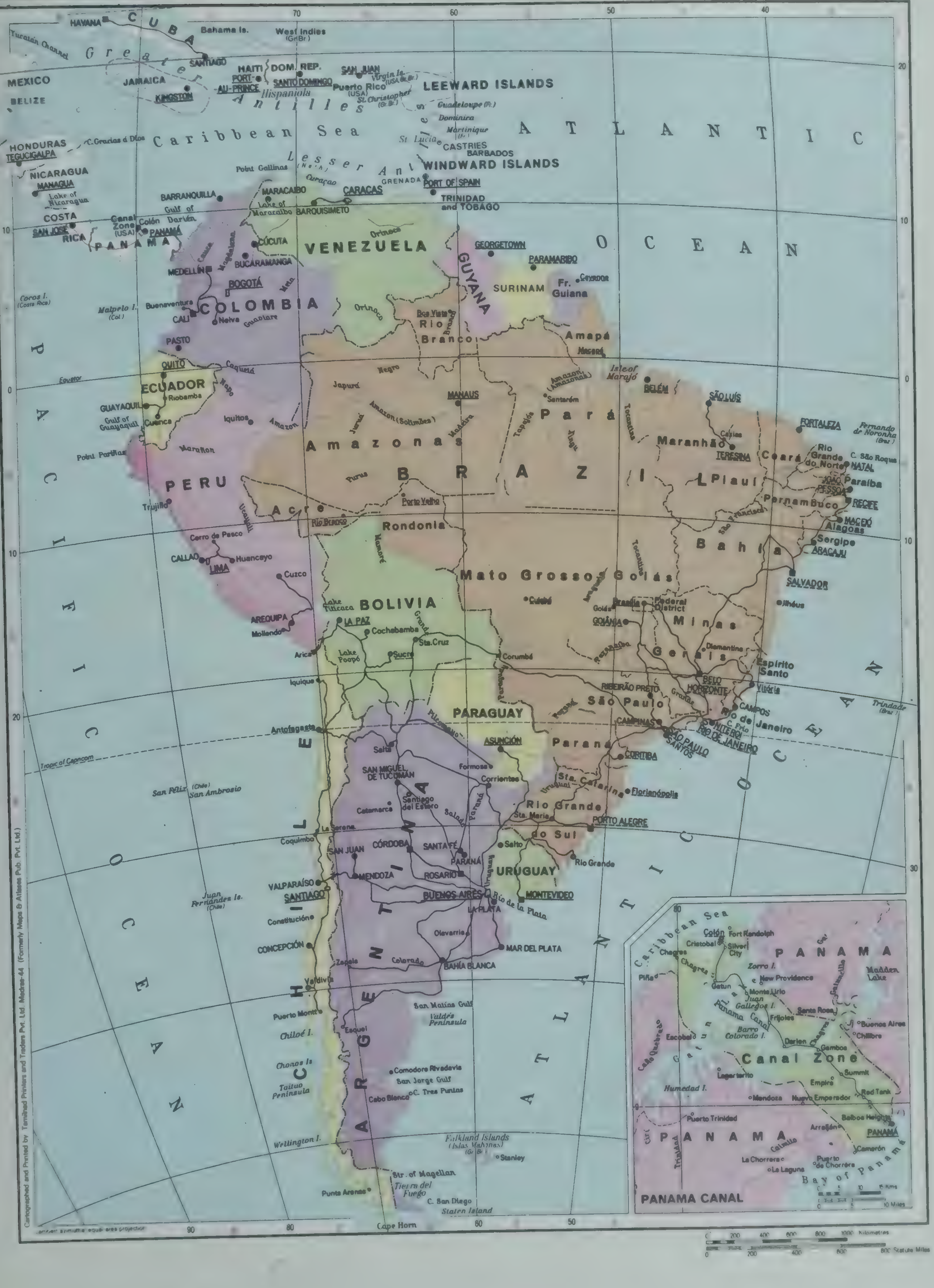
F.R.G. - Federal Republic of Germany
G.D.R. - German Democratic Republic
U.A.E. - United Arab Emirates
Lux. - Luxembourg
Liect. - Liechtenstein
Rott. - Rotterdam

NORTH AMERICA-POLITICAL


U. S. S. R.
ARCTIC OCEAN
Beaufort Sea
Queen Elizabeth Is.
Sverdrup Is.
Parry Islands
District of Franklin
Victoria Island
Baffin Island
Baffin Bay
Davis Strait
Greenland (Den.)
Greenland Sea
Bering Sea
Alaska
Alaska Peninsula
Gulf of Alaska
Alexander Archipelago
Queen Charlotte Is.
Prince Rupert
Yukon Ter.
Northwest Territories
District of Mackenzie
District of Keewatin
CANADA
Hudson Bay
Hudson Strait
Labrador Sea
Newfoundland
Quebec
Ontario
Manitoba
Saskatchewan
Alberta
British Columbia
Vancouver I.
VANCOUVER
EDMONTON
CALGARY
REGINA
Saskatoon
WINNIPEG
Churchill
Lake Athabasca
Lake Winnipeg
Port Arthur
DULUTH
Lake Superior
OTTAWA
MONTREAL
QUEBEC
TORONTO
HAMILTON
Nova Scotia
Halifax
SEATTLE
SPOKANE
PORTLAND
Washington
Oregon
Idaho
Montana
Wyoming
North Dakota
South Dakota
Nebraska
Iowa
Minnesota
Wisconsin
Michigan
Illinois
Indiana
Ohio
Pennsylvania
N.Y.
Kentucky
Tennessee
Missouri
Kansas
Colorado
Utah
Nevada
California
Arizona
New Mexico
Oklahoma
Texas
Arkansas
Louisiana
Mississippi
Alabama
Georgia
Florida
South Carolina
North Carolina
Virginia
W. Virginia
UNITED STATES
SACRAMENTO
BERKELEY
SAN FRANCISCO
SALT LAKE CITY
DENVER
LOS ANGELES
LONG BEACH
SAN DIEGO
PHOENIX
TUCSON
ALBUQUERQUE
EL PASO
OMAHA
DES MOINES
LINCOLN
WICHITA
KANSAS CITY
ST. LOUIS
CHICAGO
MILWAUKEE
DETROIT
CLEVELAND
BUFFALO
PITTSBURGH
BALTIMORE
WASHINGTON D.C.
PHILADELPHIA
NEW YORK
BOSTON
PROVIDENCE
HARTFORD
ALBANY
RICHMOND
CHARLOTTE
ATLANTA
MEMPHIS
NASHVILLE
LITTLE ROCK
DALLAS
FT. WORTH
AUSTIN
SAN ANTONIO
HOUSTON
CORPUS CHRISTI
BATON ROUGE
NEW ORLEANS
JACKSONVILLE
TAMPA
ST. PETERSBURG
MIAMI
C. Canaveral
Key West
Bahama Islands
Gulf of Mexico
MEXICO
CD. JUAREZ
CHIHUAHUA
TORREON
MONTERREY
TAMPICO
GUADALAJARA
LEON
MEXICO CITY
VERACRUZ
MERIDA
Acapulco
Bay of Campeche
Gulf of California
Guadalupe I.
CUBA
HAVANA
CAMAGUEY
HAITI
DOM. REP.
JAMAICA
Greater Antilles
Caribbean Sea
GUATEMALA
BELIZE
HONDURAS
EL SALVADOR
SAN SALVADOR
NICARAGUA
COSTA RICA
PANAMA
COLOMBIA
VENEZUELA
PACIFIC OCEAN
ATLANTIC OCEAN
HAWAIIAN ISLANDS
PACIFIC
Hawaiian Islands
HONOLULU
Hawaii
OCEAN

SOUTH AMERICA-POLITICAL


CUBA
HAVANA
Bahama Is.
West Indies (Gr.Br.)
Yucatán Channel
Greater Antilles
SANTIAGO
HAITI
DOM. REP.
SAN JUAN
Virgin Is. (USA & Gr.Br.)
MEXICO
JAMAICA
PORT-AU-PRINCE
SANTO DOMINGO
Puerto Rico (USA)
LEEWARD ISLANDS
BELIZE
KINGSTON
Hispaniola
St. Christopher (Gr.Br.)
Guadeloupe (Fr.)
Dominica
Martinique (Fr.)
St. Lucia
CASTRIES
BARBADOS
WINDWARD ISLANDS
Caribbean Sea
HONDURAS
C. Gracias á Dios
TEGUCIGALPA
NICARAGUA
MANAGUA
Lake of Nicaragua
COSTA RICA
SAN JOSÉ
Point Gallinas
Lesser Antilles (Neth.)
Curaçao
GRENADA
PORT OF SPAIN
TRINIDAD and TOBAGO
BARRANQUILLA
MARACAIBO
CARACAS
Lake of Maracaibo
BARQUISIMETO
Canal Zone (USA)
Colón
PANAMÁ
Gulf of Darién
PANAMA
Orinoco
CÚCUTA
VENEZUELA
GEORGETOWN
GUYANA
PARAMARIBO
SURINAM
Fr. Guiana
Cayenne
MEDELLÍN
BUCARAMANGA
BOGOTÁ
Magdalena
Cauca
Meta
Coros I. (Costa Rica)
Malpelo I. (Col.)
Buenaventura
CALI
COLOMBIA
Neiva
Guaviare
Boa Vista
Rio Branco
Amapá
Macapá
PASTO
QUITO
Caquetá
Equator
ECUADOR
Riobamba
Napo
GUAYAQUIL
Gulf of Guayaquil
Cuenca
Iquitos
Amazon
Isle of Marajó
BELÉM
SÃO LUÍS
Japurá
Negro
MANAUS
Amazon (Solimões)
Juruá
Madeira
Santarém
Tapajós
Xingu
Tocantins
Pará
Maranhão
Caxias
FORTALEZA
Fernando de Noronha (Braz.)
Point Pariñas
Marañon
Amazonas
TERESINA
Ceará
Rio Grande do Norte
C. São Roque
NATAL
PERU
Purus
BRAZIL
Piauí
JOÃO PESSOA
Paraíba
Trujillo
Acre
Porto Velho
Rio Branco
Pernambuco
RECIFE
Ucayali
São Francisco
MACEIÓ
Alagoas
Rondonia
Cerro de Pasco
Mamoré
Sergipe
ARACAJU
CALLAO
LIMA
Huancayo
Tocantins
Bahia
Cuzco
Mato Grosso
Goiás
SALVADOR
Lake Titicaca
BOLIVIA
Cuiabá
Brasília
Federal District
Ilhéus
AREQUIPA
LA PAZ
Goiás
GOIÂNIA
Minas
Mollendo
Cochabamba
Grande
Arica
Lake Poopó
Sucre
Sta. Cruz
Corumbá
Paranaíba
Diamantina
Gerais
Espírito Santo
Iquique
Paraguai
BELO HORIZONTE
Vitória
RIBEIRÃO PRETO
São Paulo
Grande
CAMPOS
Trindade (Braz.)
PARAGUAY
Paraná
C. Frio
Rio de Janeiro
Antofagasta
Pilcomayo
CAMPINAS
NITERÓI
RIO DE JANEIRO
ASUNCIÓN
SÃO PAULO
SANTOS
Tropic of Capricorn
Salta
Paraná
CURITIBA
SAN MIGUEL DE TUCUMÁN
Formosa
Corrientes
Sta. Catarina
Florianópolis
San Félix (Chile)
San Ambrosio
Santiago del Estero
Catamarca
Salado
Paraná
Uruguai
Rio Grande
Sta. Maria
PORTO ALEGRE
La Serena
do Sul
Coquimbo
SAN JUAN
CÓRDOBA
SANTA FÉ
Salto
Rio Grande
PARANÁ
URUGUAY
MENDOZA
ROSARIO
Uruguay
VALPARAÍSO
SANTIAGO
BUENOS AIRES
MONTEVIDEO
Juan Fernández Is. (Chile)
Rio de la Plata
LA PLATA
Constitución
Olavarría
CONCEPCIÓN
MAR DEL PLATA
Colorado
Zapala
BAHÍA BLANCA
Valdivia
San Matías Gulf
Valdés Peninsula
Puerto Montt
Esquel
Chiloé I.
Chonos Is.
Comodoro Rivadavia
San Jorge Gulf
Taitao Peninsula
Cabo Blanco
C. Tres Puntas
Wellington I.
Falkland Islands (Islas Malvinas) (Gr.Br.)
Stanley
Str. of Magellan
Punta Arenas
Tierra del Fuego
C. San Diego
Staten Island
Cape Horn
CHILE
ARGENTINA
PACIFIC OCEAN
ATLANTIC OCEAN
90
80
70
60
50
40
20
10
0
10
20
30
Lambert azimuthal equal area projection
Caribbean Sea
Colón
Fort Randolph
Cristobal
Silver City
Chagres
PANAMA
Chagres
Zorro I.
Madden Lake
Piña
Gatun
New Providence
Monte Lirio
Juan Gallegos I.
Gatun Lake
Panama Canal
Santa Rosa
Frijoles
Buenos Aires
Barro Colorado I.
Escobal
Darien
Chilibre
Caño Quebrado
Gamboa
Canal Zone
Lagartorito
Summit
Empire
Humedad I.
Mendoza
Nuevo Emperador
Red Tank
Puerto Trinidad
Balboa Heights
PANAMA
Arraiján
PANAMÁ
Caimito
Cocolí
Trinidad
Camarón
La Chorrera
Puerto de Chorrera
La Laguna
Bay of Panama
PANAMA CANAL
0 5 10 15 Kms
0 10 Miles
0 200 400 600 800 1000 Kilometres
0 200 400 600 800 Statute Miles

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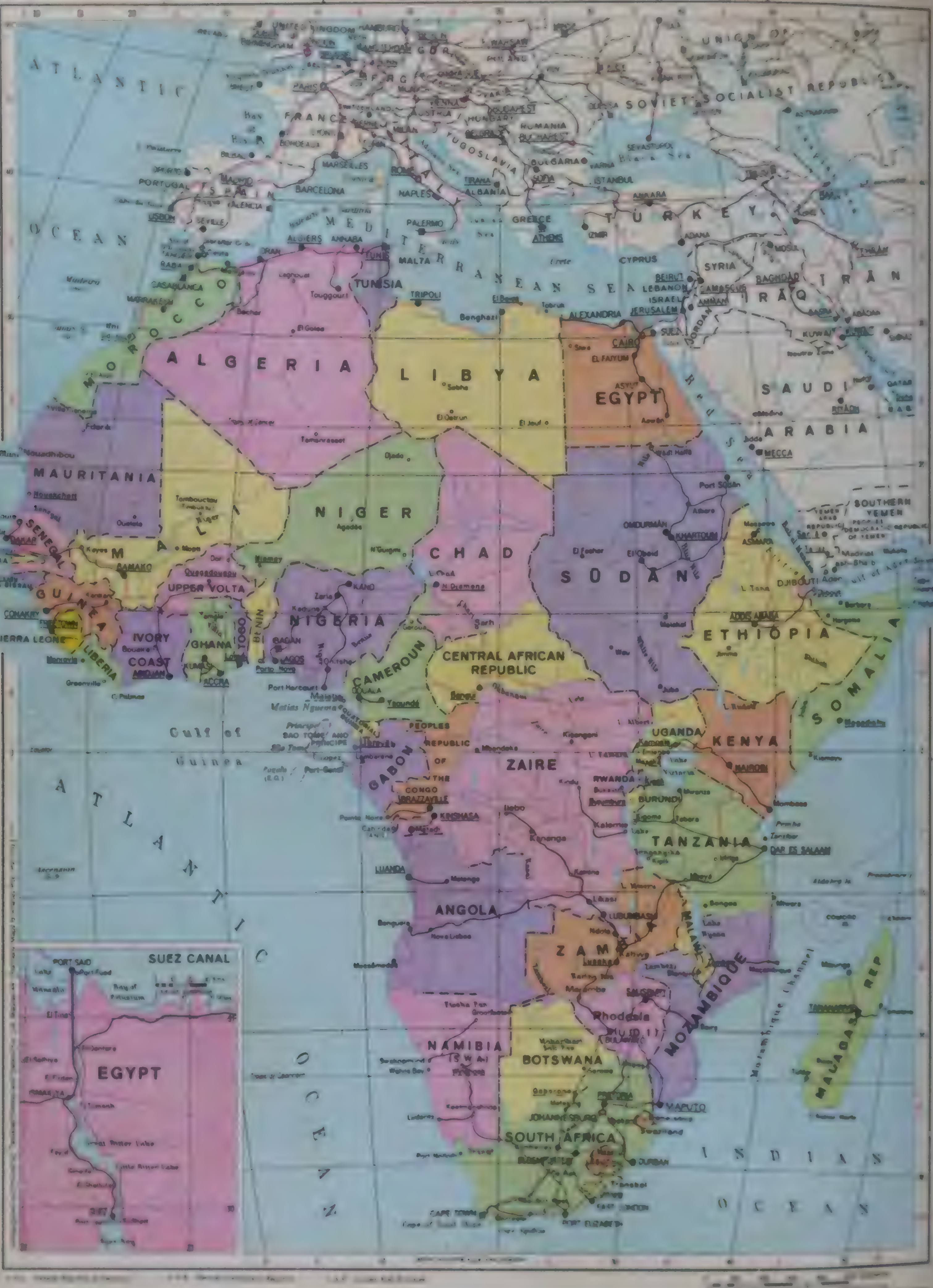
AFRICA-POLITICAL


ATLANTIC OCEAN
MEDITERRANEAN SEA
UNION OF SOVIET SOCIALIST REPUBLICS
UNITED KINGDOM
FRANCE
SPAIN
PORTUGAL
ITALY
YUGOSLAVIA
HUNGARY
RUMANIA
BULGARIA
ALBANIA
GREECE
TURKEY
CYPRUS
SYRIA
LEBANON
ISRAEL
JORDAN
IRAQ
IRAN
KUWAIT
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MOZAMBIQUE
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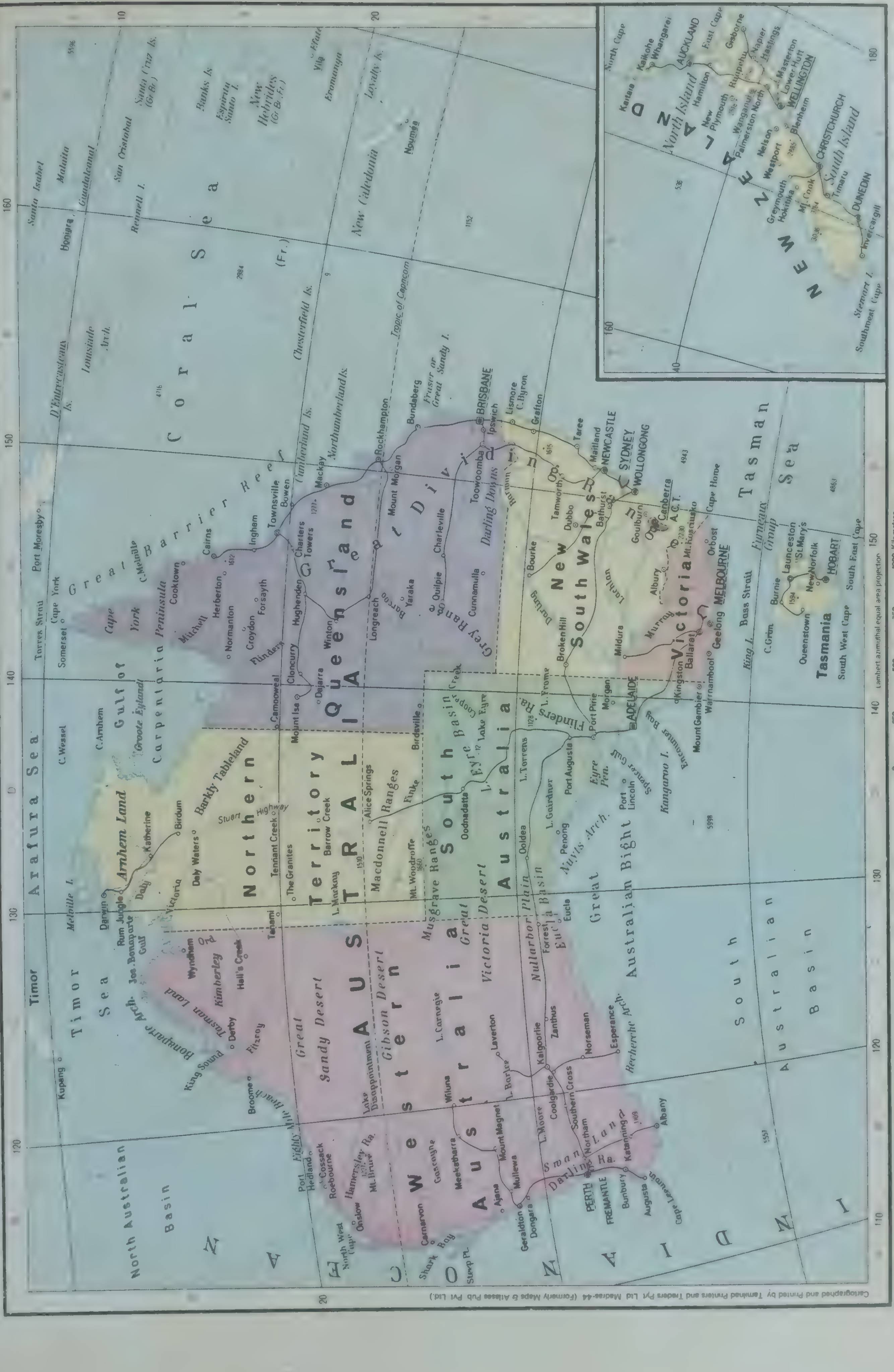
PORT SAID
Port Fuad
El Tina
Ismailia
Great Bitter Lake
Little Bitter Lake
SUEZ
EGYPT

AUSTRALIA AND NEW ZEALAND-POLITICAL


Arafura Sea
Timor Sea
Timor
Coral Sea
Great Barrier Reef
Gulf of Carpentaria
Cape York Peninsula
Torres Strait
Port Moresby
New Caledonia (Fr.)
Nouméa
New Hebrides (Gr. Br. Fr.)
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South Australian Basin
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New South Wales
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A.C.T.
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Darling Downs
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Rockhampton
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South Island
Auckland
Wellington
Christchurch
Dunedin
Invercargill
Mt. Cook
Cook Strait
Lambert azimuthal equal area projection
0 250 500 1000 Kilometres
0 150 500 150 Statute Miles

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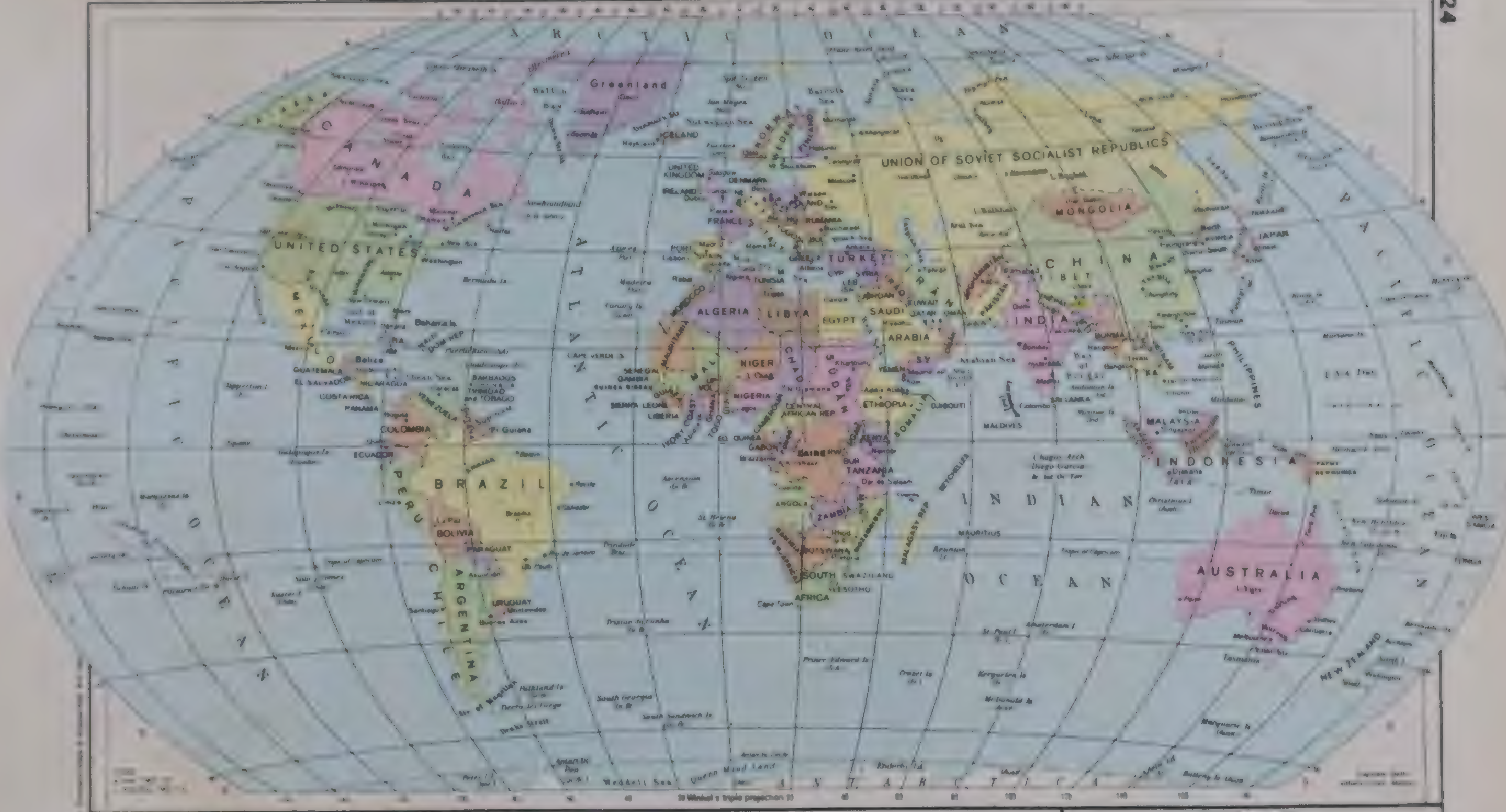
WORLD-POLITICAL


ARCTIC OCEAN
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ATLANTIC OCEAN
INDIAN OCEAN
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Weddell Sea
Queen Maud Land
Winkel's triple projection

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Venezuela
Vietnam
Yemen
Yugoslavia
Zaire
Zambia

ABBREVIATIONS

A	Albania	Hu	Hungary
Au.	Austria	Isr	Israel
B	Belgium	Jam	Jamaica
B D	Bangladesh	Ka	Kampuchea
Bh	Bhutan	M	Malta
Braz	Brazil	Mal	Malawi
Bul	Bulgaria	Ne	Netherlands
Bur	Burundi	Rhod	Rhodesia
Cyp	Cyprus	Rw	Rwanda
Cze	Czechoslovakia	S	Switzerland
Dom Rep	Dominican Republic	S Y	Southern Yemen
F Guiana	French Guiana	Thai	Thailand
F R G	Federal Republic of Germany	Uga	Uganda
G D R	German Democratic Republic	U A E	United Arab Emirates

[illegible] nautical miles measured from the appropriate base line

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Megasini 9 H 4
Mehidpur 8 B 3
Mehndawal 5 D 3
Melbourne 23 E 4
Melilla 22 D 3
Melur 13 C 5
Melville, Cape 23 E 2
Memphis 20 KL 6
Mendhar 3 AB 3
Mendoza 21 D 7
Mentawai Islands 18 ab 3
Mercara 13 A 4
Mergui Archipelago 18 K 8
Merida 20 L 7
Merta 4 C 3
Messina 19 F 5
Mettuppalaiyam 13 B 5
Mewar 4 BC 4
Mexico 20 JK 7-8
Mexico, Gulf of 20 KL 7
Mexico 20 K 8
Mhasvad 10 D 5
Mhow 8 B 3
Miami 20 L 7
Michigan 20 L 5
Michigan, Lake 20 L 5
Middle Andaman 13 cd 2
Middlesbrough 19 DE 3
Midway Islands 24 ST 4
Milan 19 E 4
Minas Gerais 21 F 5
Minicoy Island 13 b 3
Minimarg 3 B 2
Minnesota 20 K 5
Minutang 7 H 1
Miraj 10 D 5
Mirganj 6 B 2
Mirialguda 12 C 2
Mirpur 3 AB 3
Mirzapur 5 D 4
Misrikh 5 C 3
Mississippi 20 KL 6
Mississippi River 20 KL 5
Missouri 20 K 5-6
Missouri River 20 K 5
Mizoram 7 F 4
Mozambique 22 H 8-9
Mozambique 22 HJ 8
Mozambique Channel 22 H-J 8-9
Modasa 10 C 2
Moga 3 B 4
Mogadishu 22 J 6
Mohana 9 G 5
Mohol 11 D 5
Mokameh 6 B 3
Mokokchung 7 G 2
Moldavian Soviet Socialist Republic 19 GH 4
Mombasa 22 HJ 7
Monaco 19 E 4
Monghyr 6 C 3
Mongolia 18 K-N 5
Monrovia 22 C 6
Móntana 20 HJ 5
Monterrey 20 JK 7
Montreal 20 M 5
Moosonee 20 LM 4
Mopti 22 D 5
Moradabad 5 B 2
Moranhat 7 G 2
Moratuwa 13 C 7
Morena 8 D 1
Morocco 22 CD 3-4
Morbi 10 B 2
Moscow 19 H 3
Mossamedes 22 EF 8
Motihari 6 B 2
Mount Gambier 23 DE 4
Mount Morgan 23 EF 3
Mtwara 22 J 8
Mudigere 12 AB 4
Muhammadabad 5 D 4
Mul 11 F 3
Mula 10 D 4
Mullaittivu 13 D 6
Mullewa 23 B 3
Mulshi Lake 10 C 4
Munabao 4 A 4
Mungaoli 8 CD 2
Mungeli 9 E 3
Munich 19 F 4
Murliganj 6 C 3
Murray 23 E 4
Murshidabad 6 D 3
Murtajapur 11 E 3
Murud 10 C 4
Murwara 8 E 3
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Musiri 13 C 5
Mussoorie 5 AB 1
Muzaffarabad 3 AB 2
Muzaffarnagar 5 A 2
Muztagh 3 BC 1

Nachna 4 A 3
Nadia 6 D 4
Nadiad 10 C 2
Nagaland 7 G 2-3
Nagappattinam 13 CD 5
Nagar 3 C 3
Nagaram 12 D 1
Nagarjuna Sagar 12 C 2
Nagaur 4 B 3
Nagbhir 11 F 3
Nagda 8 B 3
Nagercoil 13 B 6
Nagina 5 B 2
Naginimara 7 G 2
Nagir 3 B 1
Nagore 13 CD 5
Nagpur 11 F 3
Nahan 3 C 4
Nahorkatiya 7 G 2
Naini Tal 5 B 2
Nainpur 8 E 3
Nainwa 4 CD 4
Nairobi 22 H 7
Najibabad 5 B 2
Nakhtarana 10 A 2
Nalgonda 12 C 2
Namakkal 13 C 5
Namgia 3 D 4
Namibia (South West Africa) 22 F 9
Nanded11 E 4
Nandigama 12 D 2
Nandikotkur 12 C 3
Nandurbar 10 CD 3
Nandyal 12 C 3
Nanguneri 13 B 6
Nanjangud 13 B 4
Nanpara 5 C 3
Nantes 19 D 4
Naples 19 F 4
Narasapur 12 D 2
Narasaraopet 12 CD 2
Narayanganj 1 GH 3
Narayanpet 12 B 2
Narmada 10 CD 3
Narnaul 3 C 5-6
Narsampet 12 CD 2
Narsimhapur 8 D 3
Narsipatnam 12 E 2
Narvik 19 F 2
Narwana 3 C 5
Nashville 20 L 6
Nasik 10 C 3-4
Nasirabad 4 C 3
Natal 21 G 4
Nathana 3 B 4
Nathdwara 4 BC 4
Naushahra 3 B 3
Nautanwa 5 D 3
Navadwip 6 CD 4
Navalgund 12 A 3
Navlakhi 10 B 2
Nawada 6 B 3
Nawalgarh 4 C 3
Nawashahr 3 B 4
Nayagarh 9 G 4
Nayudupeta 12 CD 4
NDjamena 22 F 5
Nebraska 20 JK 5
Negombo 13 C 7
Neill Island 13 d 3
Neiva 21 C 3
Nellore 12 C 3
Nepalganj 5 C 2
Netherlands 19 E 3
Neutral Zone 18 E 7
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New Brunswick 20 N 5
Newcastle 19 DE 3
Newfoundland 20 NO 4-5
New Hampshire 20 M 5
New Jersey 20 M 5
New Mexico 20 J 6
New Orleans 20 KL 6-7
New Plymouth 23 c 1
New Providence 21 b 1
New York 20 M 5
New Zealand 24 S 7-8
Neyyattinkara 13 B 6
N'guigmi 22 F 5
Niagara Falls 20 M 5
Niamey 22 E 5
Nicaragua 20 L 8
Nicobar Islands 18 JK 9
Nidadavolu 12 D 2
Niger 22 EF 5
Nigeria 22 EF 6
Nighasan 5 C 2
Niihau 20 ab 1
Nilakkottai 13 B 5
Nilambur 13 AB 5
Nilanga 11 E 4
Nileswaram 13 A 4
Nilgiri 13 B 5
Nimach 8 B 2
Nimbahera 4 C 4
Nimes 19 E 4
Nim Ka Thana 4 CD 3
Nine Degree Channel 13 b 3
Nipani 12 A 2
Nirmal 12 C 1
Nirmali 6 C 2
Nizamabad 12 C 1
Nohar 4 C 2
Noncowry Island 13 d 5
Nongpoh 7 E 3
Nongstoin 7 E 3
North Andaman 12 d 2
North Arcot 13 C 4
North Carolina 20 LM 6
North Dakota 20 JK 5
Northern Circars 12 E 1-2
North Island 23 c 1
North Kanara 12 A 3
North Satara 10 CD 5
North Sentinel 13 c 3
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Norwich 19 DE 3
Nouakchott 22 C 5
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Noyil 13 B 5
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Odense 19 EF 3
Oder 19 F 3
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Oklahoma 20 K 6
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Omalur 13 C 5
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Ongole 12 CD 3
Onitsha 22 E 6
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Ooldea 23 D 4
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Orbost 23 E 4
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Oslo 19 EF 3
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Padra 10 C 2
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Pakaur 6 C 3
Pakistan 18 GH 7
Palakollu 12 DE 2
Palanpur 10 C 1
Palayankottai 13 BC 6
Palel 7 G 3
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Pali 4 B 4
Palkonda 12 EF 1
Palkot 6 B 4
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Palladam 13 B 5
Palma 19 E 5
Palmaner 12 C 4
Palmas, Cape 22 D 6
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Palni 13 B 5
Pamban Isle 13 C 6
Panaji 10 C 6
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Panchmahals 10 CD 2
Pandharpur 11 D 5
Pangong Tso 3 D 3
Panjhra 10 D 3
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Paraguay 21 DE 6
Paramankudi 13 C 6
Paramaribo 21 E 3
Parana 21 E 6
Parana 21 DE 7
Parbati 8 C 2
Parbhani 11 E 4
Parganas, 24 6 D 4
Parinas, Point 21 B 4
Paris 19 E 4
Parner 10 D 4

Pasni 13 A 5
Pattukkottai 12 E 3
Pattadakal 4 F 3
[illegible] 7 C 2
Pauri 5 B 2
Pavia 16 C 3
Pawai 8 D 3
[illegible] 19 C 3
[illegible] 1 B 5
Pegu 8 B 3
[illegible] 9 F 4
[illegible] 1 C 4
[illegible]
Penukonda 12 B 3
Perak, La 21 D 4
Pas, La 20 HJ 5
Pearl River 20 H 4
Pearl Harbour 20 E 1
[illegible] 11 C 4
Peking 18 M 5
[illegible] 18 MN 5 6
[illegible] 11 B 3
Pennsylvania 20 LM 5
Penang 23 D 4
Penukonda 12 B 3
Perambalur 13 C 5
Pernambuco 21 FG 4
Perth 23 B 4
Peru 21 C 4
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Pidurutalagala 13 D 7
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Pithapuram 12 E 2
Pithoragarh 5 BC 2
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Poland 19 FG 3
Polgahawela 13 CD 7
Pollachi 13 B 5
Pondicherry 13 CD 5
Ponnani 13 A 5
Ponneri 13 D 4
Porbandar 10 A 3
Port Arthur 20 L 5
Port Augusta 23 D 4
Port Blair 13 cd 3
Port Elizabeth 22 GH 10
Port Gentil 22 E 7
Port Hedland 23 B 2-3
Port Lincoln 23 D 4
Port Nelson 20 KL 4
Porto Alegre 21 EF 6
Port of Spain 21 DE 2
Porto-Novo 22 E 6
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Pratapgarh 5 CD 4
Pravara 10 D 4
Prince George 20 G 4
Proddatur 12 C 3
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Pulgaon 11 F 3
Pulicat 13 D 4
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Punjab 3 AB 3
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Punakha 5 BC 4
Punta Arenas 21 C 9
Puranpur 5 C 2
Puri 9 G 5
Purna 11 E 4
Purnea 6 E 3
Puttalam 13 CD 6
Puttur 12 C 4
Puttur 13 A 4

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Quebec 20 L 4
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[illegible] 20 M 4
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Queensland 23 DE 3
[illegible] 22 G 9
Quilon 13 B 7
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Radhanpur 10 B 2
Rae Bareli 5 C 3
Rahuri 10 D 4
Raichur 12 B 2
Raiganj 6 E 3
Raigarh 9 F 3
Raigarh 8 B 3
Raipur 9 E 4
Raipur 11 C 9
Rajahmundry 12 DE 2
Rajapalaiyam 13 C 7
Rajapur 13 B 5
Rajgarh 4 AB 3
Rajkot 6 B 3
Rajmahal 4 E 3
Rajmahal Hills 6 E 3
Rajnandgaon 11 CD 4
Rajpipla 10 B 3
Rajsamand 4 E 4
Rajura 11 B 4
Ramanathapuram 13 C 6
Ramdurg 12 A 3
Rameswaram 13 C 6
Ramgarh 4 A 3
Rampur 5 B 4
Rampur 10 C 3
Ranaghat 18 K 8
Ranchi 11 C 4
Ranebennur 12 C 7
Rangpur 4 C 4
Raniganj 10 C 3
Rasipuram 9 G 3
Ratlam 18 H 6
Ratnagiri 12 B 3
Raurkela 9 E 5
Rewa 9 E 5
Rewari 4 B 4
Rhode Island 20 M 5
Rhodesia 22 GH 8
Riasi 14 E 4
Richmond 20 M 6
Rio Branco 21 DE 3
Rio Branco 21 D 4 5
Rio de Janeiro 21 FG 6
Rio de Janeiro 21 FG 6
Rio Grande 20 J 6
Rishikesh 5 AB 1
Rohtak 8 BC 2
Rome 19 F 4
Rumania 19 G 4
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Sabarmati 10 C 1-2
Sagar 8 D 3
Saharanpur 5 AB 1-2
Saharsa 6 C 3
Saint Christopher 21 D 2
Saint George's Channel 19 D 3
Saint George's Channel 13 d 5
Saint Lawrence Island 20 B 3
Saint Louis 22 C 5
Saint Marys 23 EF 5
Sakhalin 18 P 4-5
Salem 13 C 5
Salisbury 22 GH 8
Salt Basin 4 AB 3
Salt Lake 4 C 3
Salt Lake City 20 H 5
Salween 22 G 5
Salween 18 K 7-8
Salzburg 19 F 4
Samastipur 6 BC 3
Sambalpur 9 F 4
Sambhal 5 B 2
Sambhar Salt Lake 4 C 3
San Francisco 20 G 5
Sangameshwar 17 BC 5
Sangli 10 D 5
Sangrur 3 D 2
Sankaranayinarkoil 13 BC 6
San Marino 19 F 4
San Salvador 20 KL 8
Santa Cruz 21 D 5
Santa Cruz Islands 23 G 2
Santal Parganas 6 C 3
Santa Maria 21 E 6
Santiago 21 C 7
Santo Domingo 20 M 8
[illegible] 8 D 4
Sao Paulo 21 EF 6
[illegible] 8 B 2
[illegible] 5 C 3
[illegible] 19 E 3
[illegible] 6 AB 3
[illegible] 20 L 4
[illegible] 10 E 4
[illegible] 15 E 3
[illegible] 19 EF
Savantvadi 10 CD 6
Sawai Madhopur 4 D 4
Secunderabad 12 E 2
Sehore 8 C 3
[illegible] 8 AB 2
[illegible] 12 B 2
[illegible] 7 BC 3
Shahabad 11 BC 3
Shahdol 8 D 3
[illegible] 10 C 4
[illegible] 4 C 4
Shahjahanpur 5 C 2
Shanghai 18 N 5
Shan State 8 B 3
[illegible]
Shetland Islands 19 D 2
Shikarpur 3 B 3
[illegible] 18 D 5
[illegible] 8 B 2
Shillong 7 E 2
Shimoga 12 A 4
Shirpur 10 D 3
Shivpuri 8 C 2
Sholapur 11 DE 5
Shoranur 13 B 5
Shrirampur 6 C 5
Siang Frontier District 7 G 1
Sibsagar 7 FG 2
Siddapur 12 A 3
Sikandarabad 5 A 2
Sikkim 6 D 2
Silchar 7 F 5
Silvassa 10 C 3
Silver City 20 H 1
Simla 3 C 4
Sind 8 D 2
Singapore 18 K 9
Singbhum 6 BC 4
Sinkiang 18 HJ 5 6
Sirkazhi 13 CD 5
Sirsi 6 C 4
Sivaganga 13 C 6
Society Islands 24 B 6
Sofia 19 G 4
Somalia 22 J 6
Somerset 23 E 2
Sompeta 12 F 1
Somvarpet 13 A 4
Son 5 D 4
Sonamarg 3 B 2
Sonamukhi 6 C 4
Sound Island 13 d 2
South Africa 22 G 9
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Southampton 19 D 3
Southampton Island 20 L 3
South Andaman 13 cd 3
South Arcot 13 C 4-5
South Carolina 20 LM 6
South China Sea 18 M 8 9
South Dakota 20 JK 5
South Georgia 24 H 8
South Island 23 e 2
South Kanara 12 A 4
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South Sandwich Islands 24 HJ 8
South Saskatchewan River 20 J 4
South Satara 10 11 D 5
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Spain 19 D 4
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Srikakulam 12 EF 1
[illegible] 12 C 4
Sriganganagar 4 A 3
Srinagar 3 B 2
Sriperumbudur 13 CD 4
Srirangam 13 C 5
Srivilliputtur 13 B 6
Srungavarapukota 12 E 1
Stanley 21 E 9
Stanley Reservoir 13 BC 4 5
Stockholm 19 FG 3
Subansiri 7 G 1-2
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[illegible] 8 C 4
Sudan 22 GH 5
[illegible] 18 D 5
Suez Bay 22 b 3
[illegible] 19 G 4
Sultanpur 5 CD 3
[illegible] 12 CD 4
Sundargarh 9 FG 3
[illegible] 9 E 3
Surinam 21 E 3
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Swaziland 22 H 9
Sweden 19 F 3
Switzerland 19 EF 4
Sydney 23 E 4
Sylhet 7 E 3
Syria 19 H 5

Tabora 22 H 7
Tadpatri 12 BC 3
Tadjik Soviet Socialist Republic 18 GH 6
[illegible] 18 N 3
Taiwan 18 N 7
Taiyuan 18 M 5
[illegible] 8 CD 6
Talcher 9 G 4
[illegible] 12 B 3
[illegible] 9 F 4
[illegible] 13 AB 5
[illegible] 20 D 3
Taloda 10 D 3
Tambaram 13 D 4
Tamil Nadu 13 BC 5 6
[illegible] 12 E 4
Tampere 19 G 2
[illegible] 20 K 2
Tanda 5 D 3
[illegible] 21 EF 4
[illegible] 19 GH 3
Tanganyika 13 D 2
[illegible] 21 C 2
[illegible] 22 J 8
Tanuku 5 D 3
[illegible] 5 B 2
Tapti 8 F 4
[illegible] 7 D 2
Tarapur 10 C 4
[illegible] 4 A 3
[illegible] 10 C 4
[illegible] 12 D 2
[illegible] 19 A 3
[illegible] 22 H 7
[illegible] 2 F 4
[illegible] 19 C 3
[illegible] 7 H 2
[illegible] 19 E 4
Tarapur 10 C 4
[illegible] 23 F 4
[illegible] 13 A 4
Tashkent 18 G 5
Tasmania 23 E 5
Tasman Sea 23 F 4-5
[illegible] 7 H 2
Tawang 7 EF 2
[illegible] 20 L 8
Tehran 19 F 6
Tehri Garhwal 5 B 1
[illegible] 6 F 1
Tellicherry 13 A 5
Tenali 12 D 2
Ten Degree Channel 13 cd 4
Tenkasi 13 B 6
Tennant Creek 23 D 2
Tennessee 20 L 6
Tennessee 20 L 6
[illegible] 9 F 2
Teresina 21 F 4
Teressa Island 13 cd 4
[illegible] 8
Texas 20 JK 6
Tezpur 7 F 2
Thailand 18 KL 8
Thames 19 E 3
Thana 10 C 4
[illegible] 8 B 3
Thanjavur 13 C 5
The Dangs 10 C 3
The Hague 19 E 3
Thessaloniki 19 G 4
[illegible] 7 G 3
Thule 20 N 2
Tibet 18 J 6
[illegible] 5 D 2
[illegible] 18 M 6
Tierra Del Fuego 21 D 9
Tigris 18 E 6
Tikamgarh 8 D 2
Tilhar 5 B 2
Tillanchong Island 13 d 4
Timbuktu = Tombouctou 22 D 5
Tindivanam 13 CD 4
Tinsukia 7 G 2
Tiptur 12 B 4
Tirana 19 FG 4
Tirap Frontier District 7 GH 2
Tirodi 8 D 4
[illegible] 12 A 4
[illegible] 13 C 6
Tiruchchirappalli 13 BC 5
Tirukkoyilur 13 C 5
Tirumangalam 13 BC 6
[illegible] 13 C 5
[illegible] 13 B 6
[illegible] 13 B 5
[illegible] 13 C 4
Tiruvannamalai 13 CD 5
[illegible] 13 C 5
Tiruvottiyur 13 C 4
[illegible] 13 D 5
[illegible] 6 D 1
[illegible] 7 FG 2
Titicaca, Lake 21 D 5
[illegible] 22 G 3
Tocantins 21 F 4
[illegible] 22 E 6
Togo 22 E 6
Tokelau Islands 23 AB 2
Tokyo 18 OP 5
[illegible] 18 J 4
Tomsk 18 J 4
Tonk 4 C 3
[illegible] 23 E 4
[illegible] 9 D 4
Tons 8 E 4

[illegible] 19 HJ 5
[illegible] 19 F 5
[illegible] 19 G 5
[illegible] 19 F 5
[illegible] 20 L 5
[illegible] 17 F 5
[illegible] 18 E 4
[illegible] 19 E 4
[illegible] 19 F 4
[illegible] 10 CD 5
[illegible] 19 E 4
[illegible] 19 F 4
Free Pacific Trust 22 D 5
Tribal Territory 3 A 2
Trichur 13 AB 5
Tripura 7 F 4
[illegible] 22 E 4
[illegible] 19 G 5
[illegible] 21 D 2
Trinidad and Tobago 21 DE 1-2
Tripoli 22 F 3
Tripoli 22 F 3
Tripura 7 EF 4
Tristan Da Cunha 24 HJ 7
Trivandrum 13 B 6
Tromso 19 F 1
Trondheim 19 EF 2
Trujillo 21 BC 4
[illegible] 1 D 3
Tuamotu Archipelago 24 B 6
Tubuai Islands 24 B 7
[illegible] 7 G 2
[illegible] 20 D 4
[illegible] 11 E 4-5
[illegible] 13 B 4
[illegible] 5 B 3
[illegible] 12 A 4
Tunis 22 F 3
Tunisia 22 EF 3
[illegible] 19 E 4
Turkey 19 H 5
Turkmen Soviet Socialist Republic 18 FG 6
Tuticorin 13 C 6

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Udaipur 4 B 4
Udala 9 H 4
Udayagiri 12 C 3
Udgir 11 E 4
Udhampur 3 B 3
Udipi 13 A 4
Uganda 22 H 6
Ujjain 8 B 3
Ukhrul 7 G 3
[illegible] 19 K 2
Ukrainian Soviet Socialist Republic 19 GH 4
Ulan Bator 18 LM 5
Ulundurpettai 13 C 5
Umea 19 FG 2
Umrer 11 F 3
Umreth 10 C 2
Umtata 22 GH 10
Ungava Bay 20 N 4
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United States 20 H-L 6
Upernavik 20 NO 2
Upper Volta 22 DE 5
Ural 18 F 4
Uranium City 20 H 4
Uravakonda 12 B 3
Uri 3 B 2
Uruguay 21 E 6
Uruguay 21 E 7
Uruguay 21 E 7
[illegible] 19 GH 4
[illegible] 20 H 6
[illegible] 12 C 5
Uttar Pradesh 5 B-D 2-3
Uzbek Soviet Socialist Republic 18 FG 5

Vaduz 19 E 4
Vaigai 13 C 6
Vaijapur 11 DE 5
Valladolid 19 D 4
Valparaiso 21 C 7
[illegible]
Vancouver 20 GH 5
[illegible] 20 E 5
Vancouver Island 20 G 5
[illegible] 13 C 4
[illegible] 5 D 4
[illegible] 19 G 4
[illegible] 23 E 4
[illegible] 21 D 3
[illegible] 10 C 6
[illegible] 12 C 4
[illegible] 18 D 3
[illegible] 19 F 4
[illegible] 21 D 5
[illegible] 13 C 4

[illegible]
[illegible] 12 E 2
Victoria 23 DE 5
Victoria Falls 22 GH 8
Victoria Island 20 HJ 2
Vidisha 8 C 3
Vienna 19 F 4
Vientiane 18 L 7
Vijayadurg 10 C 5
Vijayapuri 12 C 2
Vijayawada 12 D 2
[illegible] 6 E 4
[illegible] 17 E 4
[illegible] 13 C 5
Vinukonda 12 C 2
Viramgam 10 B 2
[illegible] 20 L 6
Virudhunagar 13 B 6
Visakhapatnam 12 EF 2
Viscount Melville Sound 20 HJ 2
Vishakhapatnam 12 E 2
Vizianagaram 12 E 1
[illegible] 19 G 3
Vladivostok 18 O 5
Volga 19 J 4
Volgograd 19 J 4
Vridhachalam 13 C 5

Wadhwan 10 B 2
Wadi Halfa 22 H 4
Wainganga 11 F 3
[illegible] 10 C 5
[illegible] 10 B 2
Walajapet 13 C 4
Wandiwash 13 C 4
[illegible] 11 F 5
Wardha 11 F 3
Wardha 11 F 3
Warora 11 F 3
[illegible] 11 E 3
Washington 20 G 5
Washington 20 M 6
Washim 11 E 3
Wellington 13 B 5
West Bengal 6 CD 4
West Dinajpur 6 D 3
West Godavari 12 D 2
West Indies 21 MN 7
[illegible] 18 ...
West Khandesh 10 CD 3
West Nimar 8 B 4
[illegible] 7 FG 1
West Virginia 20 LM 6
White Nile 22 H 6
White Russian Soviet Socialist Republic 19 GH 3
Windhoek 22 F 9
Winnipeg 20 K 4
[illegible] 13 E 4
Wyndham 23 C 2

Yadgir 12 B 2
Yamuna 5 A 3
Yanam 12 E 2
[illegible] 18 M 5
Yaounde 22 F 6
[illegible] 3 E 1
[illegible] 11 E 3
[illegible] 18 N 5
Yemen 19 J 7
[illegible] 18 J 3
Yokohama 18 OP 5
Yugoslavia 19 FG 4
Yukon Territory 20 F 3

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Zaire 22 FG 6-7
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Zanzibar 22 H 7
[illegible] 3 C 2
[illegible] 5 CD 1
[illegible] 4 A 3
[illegible] 3 B 2
Zurich 19 E 4
Zomba 22 H 8

[illegible]

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THE GIFT OF KNOWLEDGE

Maybe you had thought of toys, or fine cloth, or a trip to the circus...

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